

CHECKLIST OF PLANT DISEASES IN HAWAII

including Records of Microorganisms, principally

Fungi, found in the State

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Preface

The preparation of this material for publication has been a most difficult task with outdated names for causal agents probably the stickiest of the problems. The second most difficult problem was that of causal agents identified in the early days of plant pathology in Hawaii. We have been unable to verify organisms recorded in those early days and often suspect that a mistake was made in the original identification since subsequent reports are not recorded in available literature nor found in available files.

The purpose of this note is not to justify the mistakes you may find but rather to indicate to every reader that this is a working draft of a Hawaii Plant Disease Host List. We solicit from each of you corrections and of course references to update those errors contained in this manuscript.

It is our hope that you will find this information useful in your work.

Albert P. Martinez

Introduction

As noted in his Introduction to his "Check List", it was in 1940 that Parris, '178', published a list, "which brought together the published and unpublished records of microorganisms and viruses in Hawaii". Raabe pointed out since then much information had accumulated and the need for this new information to be brought together was great. However, the "Check List" prepared by Raabe for publication about 1967 was unfortunately never published and only xerox copies of the original manuscript were available for circulation chiefly within the Department of Plant Pathology, University of Hawaii.

In 1980, I had the good fortune to spend six months in Honolulu as a Research Affiliate in the Department, where I devoted part of my time, with the permission of Dr. O. V. Holtzmann, Chairman of the Department of Plant Pathology, and with his encouragement and that of the Department members, in preparing a fresh "Check List". On account of a slow beginning, its preparation was incomplete when I left Hawaii and has been completed only after my return to the Department of Botany and Plant Pathology at Purdue University, West Lafayette, Indiana.

As in the original publication by Parris, and again by Raabe, this "List" is divided into two parts. In Part 1, entitled "Host and Substrate of the Fungi and other Organisms", the pathogens are listed under the host genera on which the pathogens are reported. In Part 2, "Fungi and other Microorganisms not reported in Part 1", are listed all the other microorganisms, which I found recorded from Hawaii.

Raabe also recorded certain changes in the nomenclature of the host plants and of their pathogens. For the names of the host genera, I began with St. John, '207', but later I used Willis, '247', and finally Ellen R. Farr *et al.* The latter reference work, *Index Nominum Genericorum (Plantarum)* 3 Vol. 1979, twenty-five years in the making, covers not only the host plants but also the fungi. It, and projected future supplements, will be the standard reference for a very long time. As Raabe did before me, for the names of host species and their pathogens, I found "In Gardens of Hawaii" by Marie C. Neal most useful. The authors for some host species were located in the "Index Kewensis", but for some species I was unable to find the authors. As already mentioned, Raabe recorded some name changes in the names of the pathogens and I too have recorded a number of name changes, but unlike

Raabe, I have shown where possible the names used by the original authors(s), thereby making the "Check List" a better reference work. I have also been able to include some of the names that Raabe had omitted. I have updated the names of several Hyphomycetes and Coelomycetes as recorded by M. B. Ellis (1971, 1976) and by B. C. Sutton (1980). Chupp, '152', prepared a useful monograph of the genus *Cercospora*. From the hosts affected and the geographic distribution of the pathogens, I have suggested the probable specific name for species recorded as *Cercospora* sp. Little has been done to update names of the Ascomycetes and Basidiomycetes. For the Myxomycetes, I consulted G. W. Martin and C. J. Alexopoulos, "The Myxomycetes", 1969 and for the Nematodes I used Tarjan, '276, 278'.

From the work of the Plant Disease Clinic, headed by Albert P. Martinez, it is evident that the soil-inhabiting pathogens, fungi and nematodes, are the major cause of disease in crops in the Hawaiian Islands.

An Index has been prepared of the Fungi, Bacteria and parasitic Spermatophytes in Part 1, as well as index of the Parasitic Nematodes. To indicate to what major group a particular pathogen belongs, each genus name is followed by an abbreviation; e.g. A = Ascomycetes, B = Bacteria, Bs = Basidiomycetes, etc. Names of genera, now considered synonyms of other genera or invalid, are underlined, as are all specific epithets. For readers, who would have preferred the pathogens arranged alphabetically by family and genus, a separate section is included, showing the genera arranged by family. It is my belief that the major users of the "Check List" will find the present arrangement very convenient.

Dr. Raabe expressed his sincere appreciation of the late Miss Marie C. Neal of the Bernice P. Bishop Museum for her help with the plant names. I also am indebted to her for the information in her "In Gardens of Hawaii". Raabe also expressed his appreciation to Dr. C. A. Wismer of the Hawaiian Sugar Planters' Association and Dr. E. J. Anderson of the Pineapple Research Institute of Hawaii for making available unpublished information and to Dr. R. B. Hine and the Department of Plant Pathology, University of Hawaii for unpublished information and making possible [its] writing".

I am indebted to the members of the Department of Plant Pathology, in particular, Dr. O. V. Holtzman, Mr. A. P. Martinez, Specialist in Plant Pathology, and Dr. Anne M. Alvarez. Mr. Martinez made available the records

of his Plant Disease Clinic and permitted the use of his library. I am also greatly indebted to several mycologists.

Dr. Gladys E. Baker granted permission to have extracted the fungi recorded by her in the Hawaiian Islands, including some collected or identified by her for the first time from Hawaii. Dr. R. D. Goos sent reprints of his papers on Hawaiian fungi. Dr. C. S. Hodges provided reprints, the loan of references and long lists of fungi found by him in Hawaii. Dr. M. F. Stoner was a valuable mentor. I have been encouraged by these mycologists to include fungi not regarded as possible parasites but probably of great importance in the degradation of plant debris. It should be noted that the collection of Myxomycetes made by O. N. Allen is preserved in the Bishop Museum, according to Mr. S. H. Sohmer, Chairman, Department of Botany at the Museum.

Finally, I am greatly indebted to Dr. T. K. Hodges, Chairman of the Department of Botany and Plant Pathology, here at Purdue University, and to Dr. J. F. Hennen for use of his personal library and providing space in the Arthur Herbarium to complete this project.

I. L. Conners
West Lafayette, IN
May 29, 1981

HOST GENERA AND THEIR PATHOGENS

Part 1 . *Host or Substrate of the Fungi and other Organisms*

ABRUS Adans.

LEGUMINOSAE

(1) *A. precatorius* L., bread vine or black-eyed susan.

Cassytha filiformis L., parasitic vine, '225'.

Rhizoctonia sp., basal rot, '281'.

ABUTILON Mill.

MALVACEAE

(1) *A. incanum* (Link) Sweet, hoary abutilon or Indian mallow.

(2) *A. grandifolium* (Willd.) Sweet (= *A. molle* (Ortego) Sweet), hairy abutilon.

Orbilia abutilonis Cash, on (2): '39'.

Puccinia heterospora Berk. & Curt., rust, on (1) and (2): '250' .

P. malvacearum Bert., rust, on (2): '284'.

Schizoxylon abutilonis Cash, on (2): '39'.

Stictis radiata Cash, on (2): '39'.

ACACIA Mill.

LEGUMINOSAE

(1) *A. confusa* Merr., Formosan koa

(2) *A. farnesiana* (L.) Willd., klu, kolu, etc.

(3) *A. koa* Gray var. koa, koa.

(4) *A. koa* Gray var. latifolia (Benth.) St. John

(5) *A. koaia* Hbd.

(6) *A. melanoxylon* R. Br., Australian blackwood.

(7) *A. sp.*

ACACIA (cont'd)

Armillaria mellea (Vahl ex Fr.) Kummer, root rot, on (3): '225'.

Aspergillus sp., on leaves of (1): '279'.

Calonectria crotalariae (Loos) Bell & Sobers (anamorph *Cylindrocladium c.* (Loos) Bell & Sobers), collar rot, on (1): '212'; on (3): '132'; on (6): '10', '203'.

C. theae Alfieri et al. (anamorph *Cylindrocladium t.* Loos), on (3): '203', '282'.

Cylindrocephalum sp., on leaf of (3): '15'.

Cylindrosporium sp., on leaf of (3): '15'.

Exosporium sp., on (3): '281'.

Fungi isolated from (a) leaves of (4), see under *Metrosideros* and (b) from soil of the A1 zone under (3), see under *Metrosideros*.

Fomes (Ganoderma) australis Fr., wood rot of (3) and (7): '26'.

F. fasciculatus Burt, on dead wood of (3): '26'.

F. fullageri (Berk.) Cke., wood rot of (3): '26'.

F. hawaiiensis Lloyd, wood rot, on (7): '26'.

Fusarium dimerum Penzig, leaves of (3): '15'.

F. oxysporum f.sp. *koae* on (3): '73'.

Humicola brevis (Gilman & Abbott) Gilm., on leaf of (3): '15'.

Hypoxylon annulatum (Schw.) Mont., on (3): '250'.

Korthalsella sp., mistletoe, on (3): '225'.

Lophodermium intermissum Starb., on (3): '250'.

Meliola bidentata Cke., on (3): '281'.

M. koae Stevens, sooty mold, on (1): '96' and (3): '96', '250'.

ACACIA (cont'd)

Meloidogyne incognita (Kofoed & White) Chitwood, root-knot nematode, on (3): '278'.

M. sp., root-knot nematode, on (3): '225'.

Nummularia guarantica Speg., on (3): '250'.

Papulospora sp., on leaf of (3): '15'.

Periconia ? angusiana M.B. Ellis, on leaf of (3): '15'.

Pestalotia breviseta Sacc, on leaf of (3): '15'.

P. stevensonii Peck, on leaf of (3): '15'.

P. sp., on leaves of (3): '15'.

Phaeolus schweinitzii (Fr.) Pat. (=Polyporus s. Fr.), on (3): '17'.

Phytophthora cinnamomi Rands, decline of (3): '146'; (6) moderately tolerant to the fungus, '141'.

Pleurotus ostreatus (Jacq. ex Fr.) Kummer, heart and root rot of (3): '17'.

Polyporus sulphureus Bull, ex Fr. , heart and root rot on (3): '17'.

Pythium sp., root rot, on (1): '281'.

Ravenelia spegazziniana Long, rust, on (2): '63', '250'.

Rhizoctonia sp., root rot, on (1) and (3): '281'.

Schizophyllum commune Fr., wound rot, on (3): '26'.

Sporotrichum laxum Nees, on leaf of (3): '15'.

Stachybotrys atra Corda, on litter of (3): '15'.

Triscelophorus monosporus Ingold, on leaf litter of (3): '89'.

Tuberculina maxima Rostr. on hypertrophied shoots of (3) infected by *Uromyces koae*: '77'.

Uromyces digitatus Winter, rust, on (3), (4), and (5): '281'.

ACACIA (cont'd)

U. koae Arth., rust, on (3), (4): '250'.

Xylaria rhopaloides (Kze.) Mont., on (3): '250'.

X. sp., decline of (6): '281'.

ACALYPHA L.

EUPHORBIACEAE

(1) *A. wilkesiana* Muell.-Arg., beefsteak plant, painted copperleaf

(2) *A. sp.*

Botryosphaeria ribis Gross. & Duggar var. *chromogena* Shear, Stevens & Wilcox, blade rot, on (1): '284'; on (2): '251'.

Diaporthe sp., on cut or dying branches of (2): '251'.

Physalospora abdita (Berk. & Curt.) N. E. Stevens, black canker, on (1): '284'.

P. fusca N.E. Stevens, black canker, on (2): '251'.

ACANTHEPHIPIUM Blume

ORCHIDACEAE

(1) *A. papuanum*

Cymbidium mosaic virus, '281'.

ACANTHOSPERMUM Schrank

COMPOSITAE

(1) *A. australe* (Loefl.) Ktze., spiny-bur, star-bur.

Meloidogyne sp., root-knot nematode, '278'.

ACER L.

ACERACEAE

(1) *A. platanoides* L., Norway maple

Pythium sp., root rot, '281'.

ACROSTICHUM L.

PTERIDACEAE

(1) *A. .sp.*

Pestalotia sp., '15'.

ADENIUM Roem. & Schult.

APOCYNACEAE

(1) *A. coetaneum* Stapf

Rhizoctonia sp., crown and root rot, '281'.

ADIANTUM L.

ADIANTACEAE

(1) *A. decorum* Moore, maidenhair fern

Pythium sp., root rot, '281'.

AECHMEA Ruiz & Pav.

BROMELIACEAE

(1) *A. fasciata* (Lindl.) Baker, aechmea.

Rhizoctonia sp., crown and root rot, '281'.

AERIDES Lour.

ORCHIDACEAE

(1) *A. sp.* , orchid

Cymbidium mosaic virus, '281'.

AGAPANTHUS L'Her.

AMAFYLLIDACEAE

(1) *A. africanus* Hoffm. (=*A. umbellatus* L'Her.), African lily, lily of the Nile

(2) *A. sp.*

Colletotrichum dracaenae Allesch. (=C. ? *gloeosporioides* (Penz.) Sacc.), on dead plants of (2): '250',

Phoma agapanthi (Thuem.) Sacc., on (1): '250'.

AGARICUS L. ex Fr.

AGARICACEAE

(1) *A. bisporus* (J. Lange) Imbach, 1946 (= *A. brunnescens* Peck, 1900:

fide Malloch, D.1976. *Mycologia* 68(4): 910-919).

Coprinus sp., a competitor in mushroom beds of (1) in Hawaii: '56'

Monilia fimicola Constantin & Matruchot, competitor in beds of (1): '56'.

Trichoderma sp., '56'.

Trichurus cylindricus Clements & Shear, competitor in (1): '15'.

T. spiralis Hasselbring, competitor in (1): '15'.

AGATI Adans.: see *Sesbania* (Leguminosae)

AGAVE L.

AGAVACEAE

(1) *A. americana* L., century plant

(2) *A. victoriae-reginae* T. Moore

Meloidogyne sp., root-knot nematode, on (1): '281'.

Pratylenchus sp., lesion nematode, on (1): '281'.

Pythium sp., root rot, on (2): '281'.

AGERATUM L.

COMPOSITAE

(1) *A. conyzoides* L., maile-hohono

(2) *A. sp.*

Aphelenchoides fragariae (Rtíz.-Bos) Christie, foliar nematode on (1): '239'.

Cassytha filiformis L., parasitic vine on (1): '225'.

Cercospora aciculina Chupp, leaf spot, on (1): '57'.

C. perfoliata Ell. & Ev. (syn: *C. agerati* Stevens), leaf spot, on (1): '250'.

AGERATUM (cont'd)

Meloidogyne sp., root-knot nematode on (1): '278'.

Pratylenchus pratensis (de Man) Filip., lesion nematode, on (1): '278' .

Puccinia conclini Seym, in Burrill, rust, on (1): '250'.

Rhizoctonia sp., root rot, on (2): '281'.

Rotylenchulus reniformis Linford & Oliveira, reniform nematode, on (1): '167'.

Mosaic virus on (1): '236'.

Spotted wilt virus on (1): '237'.

AGLAONEMA Schott

ARACEAE

(1) *A. commutatum* Schott, Chinese evergreen

(2) *A. crispum* N. E. Br. (= *A. robelinii* (Lindl.) Hort. ex Gentil), pewter plant

(3) *A. treubi* Engler

(4) *A.* sp.

Cephaleuros virescens Kunze, parasitic alga on (2): '281'.

Pratylenchus sp., lesion nematode, on (4): '281'.

Pseudomonas sp., bacterial leaf spot, on (4): '281'.

Pythium splendens Braun, root rot, on (3): '281'.

P. sp. , root rot, on (4): '281'.

Rhizoctonia sp., root rot, on (1) and (4): '281'.

Xanthomonas sp., bacterial leaf spot on (3): '281'.

AGROSTIS L.

GRAMINEAE

(1) *A. palustris* Hudson, seaside bentgrass

AGROSTIS (cont'd)

Bipolaris sorokiniana (Sacc. in Sorok.) Shoem. (= *Helminthosporium* s. Sacc. in Sorok.), seedling blight, '188'.

Criconemoides sp., ring nematode, '265'.

Helicotylenchus sp., spiral nematode, '265'.

Meloidogyne sp., root-knot nematode, '265'.

Rhizoctonia sp., root rot, '281'.

Sclerotinia homoeocarpa F.T. Bennett, dollar spot, '188'.

Trichodorus sp., stubby-root nematode, '265'.

AJUGA L.

LABIATAE

(1) *A. reptans* L., bugleweed

Sclerotium rolfsii Sacc, southern blight, '188'.

ALBIZIA Durazz.

LEGUMINOSAE

(1) *A. lebbek* (L.) Benth., siris tree or white monkeypod *Phoma henningsii* Sacc., on dead pods, '250'.

ALEURITES J.R. & J.G.A. Forst.

EUPHORBIACEAE

(1) *A. moluccana* (L.) , Willd., kukui, candlenut tree

(2) *A.* sp.

Botryosphaeria ribis (Tode ex Fr.) Gross & Duggar, on (2): '284'.

B. ribis var. *chromogena* Shear, N.E. Stevens & Wilcox, on (1): '251'.

Colletotrichum gloeosporioides (Penz.) Sacc., anthracnose, on (1): '284'.

Coryne sarcoides (Jacq.) Tul., on wood of (2): '39'; (= *Ascocoryne* s. (Jacq. ex S.F. Gray) Groves & Wilson).

ALEURITES (cont'd)

- Cuscuta sandwichiana* Choisy, dodder, on (1): '225'.
Diaporthe sp., on cut or dying branches of (1): '251'.
Fomes hawaiiensis Lloyd, on (1): '284'.
Helotium sulfurinum Quel., on dead wood of (2): '39'.
Karschia tavelinia Rehm, on wood of (2): '39'.
Lachnea scutellata (L.) Gill., on dead wood of (1): '39'.
Mollisia petiolorum Cash, on (2): '39'.
Morchella vulgaris (Pers.) Boud., under (1): '15'.
Nectria subquaternata Berk. & Br. f. *farinosa* Syd., on (1) '250' .
Odontia sp., on (1): '26'.
Oidium sp., powdery mildew, on (1): '281'.
Peziza sp., on (1): '279'.
Polyporus gilvus (Schw.) Fr., on dead (1): '284'.
Scutellinia scutellata L. (ex St. Amans) Lamb. (syn.: *Lachnea* .s. see above) on (1): '15'.
Trametes corrugata Pers. ex Bres. , on dead (1) and (2): '250' .
Typhula hyalina Jungh., on leaves of (1): '15'.
Ustulina duesta (Hoffm. ex Fr.) Petrak, on (1): '284'.
Xylaria curta Fr., on dead (1): '284', and on (2): '250'.
X. schweinitzii Berk. & Curt., on (1): '284', and on (2) '250' .

ALLAMANDA L.

APOCYNACEAE

- (1) *A. s* p., allamanda

Cercospora ?byliana Sacc., leaf spot, on (1): '281'.

ALLIUM L.

LILIACEAE

- (1) *A. ascalonicum* Strand, shallot
- (2) *A. caep* L., onion.
- (3) *A. fistulosum* L., 'aka 'akai, lau, green onion
- (4) *A. porrum* L., leek
- (5) *A. tuberosum* Roxbr., Chinese chives
- (6) *A. sp.*

Alternaria porri (Ell.) Cif., purple blotch, on (1): '281', on (2): '225', and on (2) and (4) as *Macrosporium* sp., '212'.

Bacterium sp., on (6): '215'.

Botrytis squamosa Walker, leaf blight, on (2): '281'.

Colletotrichum circinans (Berk.) Vogl., smudge, on (1) and (3): '281'.

Cylindrocladium parvum on (1): '281'.

Erwinia carotovora subsp. *carotovora* (L.R. Jones) Bergey, et al., soft rot, on (1): '281', on (2): '226' and on (6): '215'.

Helicotylenchus dihystra (Cobb) Sher, spiral nematode, on (2) : '281'.

Meloidogyne incognita (Kofoed & White) Chitwood, root-knot nematode, on (3): '281'.

M. sp. on (2) : '281'.

Phoma terrestris Hansen, on (6): '15'.

Phytophthora cinnamomi Rands, root rot, on (2): '247'.

P. drechsleri Tucker, root rot, on (2): '246'.

*P. manoana*¹ Sid., on (2): '243'.

P. palmivora Butl., on (2): '247'.

P. parasitica Dastur, on (1): '281', and on (2): '247'.

¹ Authors do not consider this a valid species

ALLIUM (cont'd)

Puccinia porri. Wint., rust, on (1) and (3): '281', and on (2): '280'.

Pyrenochaeta terrestris (Hans.) Gorenz, J.C. Walker & Larson, pink rot, on (2): '213', and on (6): '215'.

Pythium vexans de Bary, root rot, on (2): '243'.

Rhizoctonia "solani" Kuehn, root rot and damping off, on (2): '225'.

R. sp., root rot, on (1) and (5): '281'.

Rotylenchulus reniformis Lindford & Oliveira, reniform nematode, on (1), (2), (3), and (5): '281'.

Sclerotinia sclerotiorum (Lib.) de Bary, sclerotinia rot, (2): '281'.

Sclerotium cepivorum Berk., white rot, on (2): '281'.

Stemphylium botryosum Wallr., black leaf mold, on (2): '281'.

Xanthomonas sp., bacterial blight, on (2): '3'.

ALOCASIA (Schott) G. Don

ARACEAE

(1) *A. cucullata* (Lour.) G. Don, Chinese taro

Cercospora sp., '225'; (cf. *C. colocasiae* Sawada).

Phytophthora colocasiae Racib., '281'.

ALPHITONIA Reissek in Endl.

RHAMNACEAE

(1) *A. excelsa*

(2) *A. ponderosa* Hbd., kuaila

Appendiculella splendens (Stev.) Hansf. (syn. *Irene s. Stevens*), on (1): '96', '250'.

Hyalocurreya sandicensis (Ell. & Ev.) Theiss & Syd. (sic), on (2): '65', '250'.

ALPINIA Roxb.

ZINGIBERACEAE

(1) *A. purpurata* (Veill.) K. Schum., red ginger

(2) *A. speciosa* (Wendl.) K. Schum., shell ginger

Helicotylenchus sp., spiral nematode, on (1): '281'.

Meloidogyne sp., root-knot nematode, on (1): '281'.

Pythium sp., root rot, on (1): '281'.

Radopholus similis (Cobb) Thorne, burrowing nematode, on (2) '119'.

Rhizoctonia sp., root rot, on (1): '281'.

ALTERNANTHERA Forssk.

AMARANTHACEAE

(1) *A. amoena* (Lem.) Voss, joy weed

(2) *A. sp.*

Rhizoctonia sp., root rot, on (1): '281'.

Sclerotium rolfsii Sacc, southern blight, on (2): '281'.

ALYXIA Banks ex R.Br.

APOCYANACEAE

(1) *A. olivaeformis* Gaud., maille

Amazonia alyxiae Hansford (as *A. psychotriae* (P. Henn.) Theiss), '96', '250'.

Guignardia alyxiae Stevens, '250'.

Meliola alyxiae Stevens, '94', '96', '250'.

Trichopeltis reptans Speg. and *T. rhyacoides* Stevens, '250'.

Trichothallus hawaiiensis Stevens and

Uromyces alyxiae Arthur, '250'.

AMARANTHUS L.

AMARANTHACEAE

(1) *A. gracilis* Desf., slender amaranth, pakai

AMARANTHUS (cont'd)

- (2) *A. hybridus* L., spleen amaranth, pakai
- (3) *A. retroflexus* L., rough pigweed
- (4) *A. spinosus* L., spiny amaranth, pakai-puku
- (5) *A. tricolor* L., Joseph's coat, Chinese spinach

Alternaria solani (Ell. & Martin) Jones & Grout, early blight, on (4) and (5) : '281'.

Cercospora sp. (= *C. ?brachiata* Ell. & Ev.), leaf spot, on (3): '213'.

Macrophomina phaseolina (Tassi) Goid. (*Sclerotium bataticola* Taub.), charcoal rot, on (4): '281'.

Meloidogyne sp., root-knot nematode, on (1), (2) and (4): '278'.

Pratylenchus pratensis (de Man) Filip., lesion nematode, on (1): '278'.

Rhizoctonia sp., root rot, on (1): '278'.

AMARYLLIS L.

AMARYLLIDACEAE

- (1) *A. belladonna* L., belladonna lily
- (2) *A.* sp.

Rhizoctonia sp., root rot, on (2): '281'.

Stagonospora curtisii (Berk.), Sacc. leaf scorch, on (2): '281'.

Amaryllis mosaic virus, on (1): '156'.

AMBROSIA L.

COMPOSITAE

- (1) *A. trifida* L., giant ragweed

Cercospora arctii-ambrosiae Halst., leaf spot, '284'.

ANACARDIUM L.

ANACARDIACEAE

(1) *A. occidentale* L., cashew nut

Gloeosporium sp., anthracnose, '217'.

ANAGALLIS L.

PRIMULACEAE

(1) *A. arvensis* L. scarlet pimpernel

Meloidogyne sp., root-knot nematode, '284'.

ANANAS Mill.

BROMELIACEAE

(1) *A. comosus* (L.) Merr., pineapple

Acetobacter aceti (Pasteur) Beijerinck, pink disease, '47', '234' .

A. sp., marbling, '281'.

Alternaria sp., '245'.

Aphanomyces sp., root rot, '278'.

Aspergillus sp., '278'.

Ceratocystis paradoxa (Dade) Moreau, fruit and butt rot, '54', '161' .

Criconemoides sp., ring nematode, '278'.

Ditylenchus intermedius (de Man) Filip., stem and bulb nematode, '207'.

Enterobacter agglomerans (Beijerinck) (syn. *Erwinia herbicola* (Loehnis)) Ewing & Fife, pink disease, '47', '234'.

Erwinia herbicola (Loehnis) Dye, pink disease, '47' , '48', '281' .

Fusarium affine Fautr. & Lamb., '161'.

F. moniliforme Sheldon var. *subglutinans*, fruitlet core rot, '235'.

F. sp., '161'.

ANANAS (cont'd)

Gluconobacter oxydans (Henneberg) De Ley. (= *Acetomonas o.* (Henneberg) Bergey et al.), pink disease, '47', '232', '234'.

Helicotylenchus dihystra (Cobb) Sher (syn.: *H. nannus* Steiner), spiral nematode, '278'.

H. multicinctus (Cobb) Golden (= *Rotylenchus m.* (Cobb) Filip.), spiral nematode, '278'.

Hymenula affinis (Fautr. & Lamb.) Wr. (= *Fusarium affine* Fautr. & Lamb.), root rot, '278'.

Meloidogyne incognita (Kofoed & White) Chitwood, root-knot nematode, '236'.

M. javanica (Treub) Chitwood, '278'.

M. sp., '161'.

Mollisia sp., '279'.

Monilia sp., '278'.

Paratylenchus bukowinensis Micoletsky, pin nematode, '207'.

P. elachistus Steiner, (= *P. minutus* Linford), '168'.

P. sp., '161'.

Penicillium funiculosum Thorn, fruitlet core rot or leather pocket, '109', '232', '234'.

P. pinophilum Hedgec., '278'.

Pestalotia sp., '279'.

Phoma sp., '245'.

Phytophthora cinnamomi Rands, root rot, '194'.

P. citrophthora (Sm. & Sm.) Leonian, '278'.

P. drechsleri Tucker, '246'.

P. palmivora Butler, heart rot, '194'; cf. '269'.

P. parasitica Dast., heart rot, '194'; cf. '269'.

ANANAS (cont'd)

Pratylenchus brachyurus (Godfrey) Filip. & Schuur. Stekh., '37'.

P. pratensis (de Man) Filip., '37'.

Protosteliopsis ?fimicola (Olive) Olive & Stoianovitch, '15'.

Pythium acanthophoron Sideris, '246'.

P. aphanidermatum (Edson) Fitzp., root rot, '31'.

P. arrhenomanes Drechsl., root rot, '244'; cf. '284'.

P. artotrogus (Mont.) de Bary var. *macrocanthum* Sid., '246'.

P. debaryanum Hesse, '246'.

P. indigoferae Butl., root rot, '244'; cf. '284'.

P. intermedium de Bary, '245'.

P. irregulare Butler, '246'.

P. ?mammillatum Meurs, '246'.

P. megalacanthum de Bary, '246'.

P. polymorphon Sid., '246'.

P. rostratum Butler, '246'.

P. splendens Braun, '246'.

P. vexans de Bary, '246'.

P. sp., '246'.

Radopholus similis (Cobb) Thorne (syn.: *Rotylenchus s.* (Cobb) Filip.), burrowing nematode, '41'.

Rhizidiocystis ananasi Sideris, in root hairs, '265'.

Rhizoctonia sp., root rot, '278'.

Rhizopus stolonifer (Ehr. ex Fr.) Vuili., fruit rot, '284'.

R. sp., '278'.

ANANAS (cont'd)

Rotylenchulus reniformis Linford & Oliveira, reniform nematode, '167'.

Saccharomyces sp., '278'.

Thielaviopsis ethacetica Went, '15'.

Trichoderma lignorum Tode ex Harz, '161'.

T. sp., '245'.

Tylenchorhynchus sp., stunt nematode, '281'.

Verticillium heterocladium?, '245'.

Mealybug wilt virus, '278'.

Mosaic virus, '38'.

Spotted wilt virus, '163'.

ANETHUM L.

UMBELLIFERAE

(1) *A. graveolens* L., dill

Rhizoctonia sp., root rot, '281'.

Rotylenchulus reniformis Linford & Oliveira, reniform nematode, '281'.

ANGELONIA Humb. & Bonpl.

SCROPHULARIACEAE

(1) *A. salicariaefolia* Humb. & Bonpl., angelonia

Oidium sp., powdery mildew, parasitized by *Ampelomyces quisqualis* Ces.

(=*Cicinnobolus cesatii* de Bary), '225'.

ANGRAECUM Bory

ORCHIDACEAE

(1) *A. sp.*

Cymbidium mosaic virus, '281'.

Odontoglossum ringspot virus, '281'.

ANNONA L.

ANNONACEAE

(1) *A. cherimola* Mill., cherimoya

Colletotrichum gloeosporioides (Penz.) Sacc, anthracnose, '216'.

ANTHOXANTHUM L.

GRAMINEAE

(1) *A. odoratum* L., sweet vernal grass

Puccinia poae-nemoralis Otth (= *P. brachypodii* Otth var. *poae-nemoralis* (Otth) Cumm. & G.C. Greene), rust, '281'.

ANTHURIUM Schott

ARACEAE

(1) *A. andraeanum* Linden ex Andre, anthurium

(2) *A. sp.*

Aphelenchoides fragariae (Ritz.-Bos) Christie, foliar nematode, on (1): '9'.

Calonectria sp., root rot, on (2): '281'.

Colletotrichum gloeosporioides (Penz.) Sacc., spadix blight, on (1): '9'.

Helicotylenchus erythrinae (Limm.) Golden, spiral nematode, on (1) : '119' .

Pythium splendens Braun, root rot, on (1): '281'.

Radopholus similis (Cobh) Thorne, burrowing nematode, on (1): '239' .

Rhizoctonia sp., root rot, on (1): '281'.

Xanthomonas campestris pv. *dieffenbachiae* (McCull. & Pirone) Dowson, on (1): '104'.

Dasheen mosaic virus on (1): '281'.

ANTIDESMA L.

EUPHORBIACEAE

(1) *A. platyphyllum* Mann

ANTIDESMA (cont'd)

(2) *A. pulvinatum* Hbd.

Pestalotia sp. (correct spelling for *Pestalozzia*), leaf spot, on (1): '250'.

Phytophthora cinnamomi Rands, root rot, on (2): '146'.

ANTIGONON Endl.

POLYGONACEAE

(1) *A. leptopus* Hook & Arn. , coral vine, Mexican creeper

Rhizoctonia sp., root rot, '281'.

ANTIRRHINUM L.

SCROPHULARIACEAE

(1) *A. majus* L., snapdragon

Meloidogyne sp., root-knot nematode, '281'.

Phytophthora parasitica Dastur, root rot, '247'.

Puccinia antirrhini Diet. & Holw., rust, '217'.

APHELANDRA R. Br.

ACANTHACEAE

(1) *A. squarrosa* Ness, aphelandra

Pythium sp., root rot, '281'.

APIUM L.

UMBELLIFERAE

(1) *A. graveolens* L. var. *dulce* DC, celery

Cercospora apii Fres., early blight, '213'.

Helicotylenchus dihystra (Cobb) Sher., spiral nematode, '119'.

Meloidogyne arenaria (Neal) Chitwood, root-knot nematode, '119'.

M. incognita (Kofoed & White) Chitwood, root-knot nematode, '119'.

M. javanica (Treub) Chitwood, root-knot nematode, '119'.

APIUM (cont'd)

Pratylenchus penetrans (Cobb) Filip. & Schuur. Stekh., lesion nematode, '119', '280'.

Pythium sp., root rot, '281'.

Rhizoctonia sp., root rot '281'.

Sclerotinia sclerotiorum (Lib.) de Bary, pink rot, '280'.

Septoria apii (Briosi & Cav.) Chester, late blight, '27'.

S. apii-graveolentis Dorogin, late blight, '281'.

Trichodorus sp. stubby-root nematode, '281'.

Cucumber mosaic virus, '225'.

Mosaic virus, '280'.

Spotted wilt virus, '284'.

AQUILEGIA L.

RANUNCULACEAE

(1) *A. vulgaris*, columbine

Pythium sp., root rot, '281'.

ARACHIS L.

LEGUMINOSEAE

(1) *A. hypogaea* L., peanut

Calonectria crotalariae (Loos) Bell & Sobers, collar rot, '203'.

Cercospora arachidicola Hori, leaf spot, '203'.

C. personata (Berk. & Curt.) Ell., leaf spot, '212'.

Diplodia natalensis Pole Evans, '181'.

Macrophomina phaseolina (Tassi) Goid. (*Sclerotium bataticola* Taub.), charcoal rot, '281'.

Meloidogyne sp., root-knot nematode, '212'.

Mycosphaerella berkeleyi W.A. Jenkins, brown leaf spot, '181'.

ARACHIS (cont'd)

Phyllosticta sp., leaf spot, '215'.

Pseudomonas solanacearum E.F.Sm., bacterial wilt, '181'.

Rhizoctonia (?*solani* Kuehn), root rot, '225'.

Sclerotium rolfsii Sacc, southern blight, '28'.

Septogloeum arachidis Racib., '28'.

Mosaic virus, '180'.

Rosette virus, '180'.

ARACHNANTHE Blume (= *Arachnis* Blume)

ORCHIDACEAE

(1) *A.* sp.

Cymbidium mosaic virus, '281'.

ARACHNIS (Aranda)

ORCHIDACEAE

(1) *A.* sp.

Cymbidium mosaic virus, '281'.

ARACHNOSTYLIS Hort.

ORCHIDACEAE

(1) *A.* sp.

Cymbidium mosaic virus, '281'.

Odontoglossum ringspot virus, '281'

ARANDA Hort.

ORCHIDACEAE

(1) *A.* sp.

Cymbidium mosaic virus, '281'.

Odontoglossum ringspot virus, '281'

ARANTHERA Hort.

ORCHIDACEAE

(1) *A. sp.*

Cymbidium mosaic virus, '281'.

ARAUCARIA Juss.

ARAUCARIACEAE

(1) *A. heterophylla* (Salisb.) Franco (syn.: *A. excelsa* (Lamb.) R.Br.), Norfolk
Island pine

Botryodiplodia theobromae Pat., bleeding canker, '140', '254'.

Cylindrocladium kyotensis, collar rot, '281'.

Dothiorella sp., bleeding canker, '247'.

Helicotylenchus sp., spiral nematode, '281'.

Phytophthora cinnamomi Rands, seedling root rot and tree decline, '188'.

Sebacina sp., '15'.

Mycoenterolobium platysporum Goos, on decaying wood of *A. sp.*, '86'.

ARAUCARICEAE

Gloeosporium araucariae Masee (= *Dothiorella* sp.), on sp.?: '279'.

ARCTIUM L.

COMPOSITAE

(1) *A. lappa* L., great burdock

Cercospora arctii-ambrosiae Halst. (syn.: *C. arctii* Stevens), leaf spot, '250'.

Hoplolaimus sp., nematode, '239'.

Meloidogyne hapla Chitwood, root-knot nematode, '239'.

Nothocriconema mutabile (Taylor) de Gisse & Loof (syn.: *Criconemoides m.*
Taylor), ring nematode, '239'.

ARGYREIA Lour.

CONVOLVULACEAE

(1) *A. nervosa* (Burn.f.) Bojer, wooly or silver morning glory

Rotylenhulus reniformis Linford & Oliveira, reniform nematode, '167'.

ARGYROXIPHUM DC.

COMPOSITAE

(1) *A. sandwichense* DC. (syn.: *A. macrocephalum* Gray)

Aerodictys fimicola M.B. Ellis & Gunnell, '15'.

Aspergillus niger van Teighem, on leaves, '15'.

A. terricola var. *indiens* (M. & A.) Raper & Fennell, '15'.

Pithomyces chartarum (Berk. & Curt.) M.B. Ellis, '15'.

Plenodomus sp., on leaves, '15'.

ARMORACIA Gaertner, Mayer & Scherb.

CRUCIFERAE

(1) *A. lapthifolia* Gilib., horseradish

Albugo candida (Pers. ex. Lev.) Ktze, white rust, '213'.

ARTEMISIA L.

COMPOSITAE

(1) *A. ?frigida* Willd., fringed sagebrush

(2) *A. ?gnaphlodes* Nutt., cudweed

(3) *A. ?ludoviciana* Nutt., Louisiana sagebrush

(4) *A. ?tridentata* Nutt., big sagebrush

Puccinia absinthii (Hedw. f.) DC, rust, on (1), (2), (3), and (4): '284'.

ARTOCARPUS J.R. & J.G.A. Forst

MORACEAE

(1) *A. cummunis* J.R. & J.G.A. Forst. (syn.: *A. altilis* (Parkins) Fosb., *A.*

incisa L.f.), breadfruit

ARTOCARPUS (cont'd)

Cephaleuros virescens Kunze, algal leafspot, '188'.

Colletotrichum artocarp Delacr. (= *C. gloeosporioides* (Penz.) Sacc), on living leaves, '250'.

Mycosphaerella artocarp Stevens & Young, '250'.

Orbilia epipora (Nyl.) Karst., on log of (1): '39'.

Phyllosticta artocarp Speg., leaf spot, '250'.

Rhizopus sp., '279'.

ARUNDINA Blume

ORCHIDACEAE

(1) *A. bambusifolia* Lindl., bamboo orchid

Cassytha filiformis L., parasitic vine, '225'.

Cuscuta sandwichiana Choisy, dodder, '225'.

ARUNDO L.

GRAMINEAE

(1) *A.* sp., reed

Anthostomella sp., '278'.

ASCOCENTRUM Schlechter

ORCHIDACEAE

(1) *A. miniatum* (Lindl.) Schlechter

Cymbidium mosaic virus, '281'.

ASPARAGUS L.

LILIACEAE

(1) *A. munitoides* Baker, Japanese asparagus fern

(2) *A. officinalis* L. var. *altilis* L., cultivated asparagus

(3) *A. setaceus* (Kunth) Jessup (= *A. plumosus* Baker)

(4) *A. sprengeri* Regel (or *A. densiflorus* (Kunth) Jessop)

ASPARAGUS (cont'd)

Cercospora asparagi Sacc, leafspot, on (2): '212'.

Fusarium oxysporum Schlecht, f. *asparagi* Cohen, yellows, on (2) : '225' .

F. sp., on (2) : '215' .

Pythium sp., root rot on (3) and (4): '281'.

Rhizoctonia sp., crown and root rot, on (2): '281'.

ASPLENIUM L.

ASPLENIACEAE

(1) *A. nidus* L., birds-nest fern.

Aphelenchoides fragariae (Ritz.-Bos) Christie, foliar nematode, '119'.

ASTER L.

COMPOSITAE

(1) *A. sp.*, aster

Oidium sp., powdery mildew, '225'.

Phomopsis ?brencklei Petr. (anamorph of *Clypeoorthella b.* Petr.), stem blight, '281'.

Rhizoctonia sp., root rot, '281'.

AVENA L.

GRAMINEAE

(1) *A. fatua* L., wild oats

(2) *A. sativa* L., cultivated oats

Fusarium graminearum Schwabe, head blight, on (2): '281'.

Helicotylenchus multicinctus (Cobb) Golden (syn.: *Rotylenchus m.* (Cobb), Filip., spiral nematode, on (1): '278'.

Paratylenchus elachistus Steiner (syn.: *P. minutus* Linford), pin nematode, on (2): '278'.

Puccinia coronata Corda, crown rust, on (2): '250'.

AVENA (cont'd)

Ustilago avenae (Pers.) Jens., loose smut, on (2): '250'.

AXONOPUS Beauv.

GRAMINEAE

(1) *A. affinis* Chase, narrow-leaved carpet grass

(2) *A. compressus* (Swartz) Beauv., broad-leaved carpet grass

Rhizoctonia (solani) Kuehn, root rot, on (1) and (2): '284'.

Physoderma sp., on (1): '248'.

BACOPA Aubl.

SCROPHULARIACEAE

(1) *B. sp.*, water hyssop

Meloidogyne sp., root-knot nematode, '278'.

BAMBUSA Schreber

GRAMINEAE

(1) *B. vulgaris* Schrad., feathery bamboo

(2) *B. sp.*

Arthrinium phaeospermum (Corda) M.B. Ellis, on ?(2): '15'.

Eutypa bambusae Plunkett, saprophyte on ?(2): '15'.

Lageniformia bambusae Plunkett, on dead (2): '250'.

Scirrhia lophodermioides Ell. & Ev., on (2): '284'.

Mosaic virus on (1) and on (2): '284'.

BANKSIA L.f.

PROTEACEAE

(1) *B. menzeisii* R.Br., protea

Criconemoides sp., ring nematode, '281'.

Phytophthora cinnamomi, root rot, '46'.

BARLERIA L.

ACANTHACEAE

(1) *B. sp.*

Sclerotium rolfsii Sacc., southern blight, '218'.

BARRINGTONIA J.R. & J.G.A. Forst.

BARRINGTONIACEAE

(1) *B. racemosa* Roxb. (as *B. asiatica* Sacc.)

Gloeosporium barringtoniae Stev. & Young (= *Colletotrichum gloeosporioides* (Penz.) Sacc), anthracnose, '250'.

Phoma barringtoniae Cke. & Massee, on leaves, '250'.

BASELLA L.

BASELLACEAE

(1) *B. alba* L. Ceylon spinach

Cercospora sp., leafspot, '281'.

BAUMEA Gaud.

CYPERACEAE

(1) *B. meyenii* Kunth

Meliola argentina Speg., '96'.

BEGONIA L.

BEGONIACEAE

(1) *B. rex-cultorum* Bailey, rex begonia

(2) *B. semperflorens* Link & Otto

(3) *B. sp.*

Meloidogyne sp., root-knot nematode, on (3): '281'.

Oidium sp., powdery mildew, on (1): '227'.

Pythium sp., root rot, on (3): '281'.

Rhizoctonia sp., root rot, on (3): '281'.

Rotylenchulus reniformis Linford & Oliveira, reniform nematode, on (1): '167'.

BEGONIA (cont'd)

Xanthomonas sp. (Buckw.) Dowson, on (3): '281'.

BELOPERONE Nees

ACANTHACEAE

(1) *B. guttata* Brandegees, shrimp plant

Rotylenchulus reniformis Linford & Oliveira, reniform nematode, '167'.

BENINCASA Savi

CUCURBITACEAE

(1) *B. hispida* (Thunb.) Kogn. (syn. *B. cerifera* Savi).

Cercospora echinocvstis Ell. & Martin, leafspot, '15'.

BETA L.

CHENOPODIACEAE

(1) *B. vulgaris* L., garden beet

(2) *B. vulgaris* L. var. *cicla* (L.) Mog., Swiss chard

Cercospora beticola Sacc, leafspot, on (1) and (2): '250'.

Heterodera trifolii Goffart, clover cyst nematode, on (1) and (2) : '120'.

Meloidogyne sp., root-knot nematode, on (1) and (2): '216'.

Rhizoctonia sp., damping-off, on (1): '281'.

Rotylenchulus reniformis Linford and Oliveira, reniform nematode, on (1) and (2): '167' Cucumber mosaic virus on (1): '213'.

Mosaic virus on (2): '213'.

BIDENS L.

COMPOSITAE

(1) *B. pilosa* L. (syn.: *B. leucantha* Willd.), beggar ticks, bur marigold

(2) *B. sp.*

BIDENS (cont'd)

Cassytha filiformis L., parasitic vine, on (1): '225'.

Cercospora megalopotamica Speg., leafspot, on (1) : '250'.

Entyloma compositorum Forl., leaf smut, on (1): '281'.

Meloidogyne sp., root-knot nematode, on (1) and (2): '278'.

Paratylenchus elachistus Steiner (syn.: *P. minutus* Linford), on (1): '168'.

Phytophthora parasitica Dastur, root rot, on (1): '194'.

Uromyces bidenticola Arthur, rust, on (1) and (2): '284'.

BILLBERGIA Thunb.

BROMELIACEAE

(1) *B.* sp.

Pythium arrhenomanes Drechsler, '244'.

BISERRULA L.

BISERRULACEAE

(1) *B. pelecinus* L.

Rhizoctonia sp., crown and root rot, '281'.

BIXA L.

BIXACEAE

(1) *B. orellana* L., lipstick tree, arnotto

Cassytha filiformis L., parasitic vine, '225'.

Rotylenchulus reniformis Linford & Oliveira, reniform nematode, '167'.

BLETIA Ruiz & Pav.

ORCHIDACEAE

(1) *B. purpurea* (Lam.) DC .

Cymbidium mosaic virus, '281'.

BOERHAVIA L.

NYCTAGINAEAE

(1) *B. coccinea* Mill., boerhavia

Albugo platensis (Speg.) Swingle, white rust, '216'.

BORRERIA G.F.W. Mey.

RUBIACEAE

(1) *B. sp.*

Cuscuta sandwichiana Choisy, '281'.

BOUGAINVILLEA Comm. ex Juss.

NYCTAGINACEAE

(1) *B. glabra* Choisy

(2) *B. umbellifera* (J.R. & J.G.A. Forst.) Seem (syn. *Ceodes u.* J.R. & J.G.A. Forst.), papala, kepau

(3) *B. sp.*

Cercospora bougainvilleae, leafspot, on (1): '281'.

Pythium splendens Braun, root rot, on (2): '281'.

Rhizoctonia sp., on (2): '281'.

Rotylenchulus sp., reniform nematode, on (2): '281'.

BRACHIARIA (Trin.) Grisb.

GRAMINEAE

(1) *B. mutioa* (Forsk.) Stapf, California or para grass

Bipolaris setariae (Saw.) Shoem., leafspot, '273'.

Rotylenchulus reniformis Linford & Oliveira, reniform nematode, '281'.

BRAPASIA Hort.

ORCHIDACEAE

(1) *B. serena*

Odontoglossum ringspot virus, '281'.

BRASSAIA Endl.: see *Schefflera* (Araliaceae).

BRASSAVOLA R.Br. in Ait. & Ait.f.

ORCHIDACEAE

(1) *B. sp.*

Cymbidium mosaic virus, '281'.

Odontoglossum ringspot virus, '281'.

BRASSIA R.Br. in Ait. & Ait.f.

ORCHIDACEAE

(1) *B. maculata* R.Br. in Ait. & Ait.f.

Cymbidium mosaic virus, '281'.

BRASSICA L.

CRUCIFERAE

(1) *B. campestris* L., field mustard

(2) *B. campestris* L. var. *napobrassica* (L.) DC, rutabaga

(3) *B. chinensis* L., pak-choi

(4) *B. juncea* (1) Zer j, & Coss. , leaf or Chinese mustard

(5) *B. nigra* (L.) Koch (=*Sinapsis cernua* Thunb.), black mustard

(6) *B. oleracea* L.

(7) *B. oleracea* L. var. *acephala* DC. , common kale

(8) *B. oleracea* L. var. *botrytis* L. broccoli, cauliflower

(9) *B. oleracea* L. var. *capitata* L., cabbage

(10) *B. pekinensis* (Lour.) Rupr., Chinese or celery cabbage

(11) *B. rapa* L., turnip

(12) *B. sp.*

Albugo candida (Pers. ex Lev.) Ktze. white rust, on (1): '28', on (2): '284', on (3) and (4): '181', on (5): '28', on (8): '225', on (10): '181', and on (11): '213'.

BRASSICA (cont'd)

Alternaria brassicae (Berk.) Sacc., gray leafspot, on (1): '213', on (4): '281', on (6): '216', on (8) and (9): '212', on (10) and (11): '213'.

A. brassicola (Schw.) Wiltshire (syn.: *A. oleracea* Milbr.) black leafspot, on (6): '284', on (9): '281', and on (11): '284'.

Cercospora brassicicola P. Hennings, leafspot, on (10): '281', and on (8): '213'.

Criconemoides sp., ring nematode, on (9): '281'.

Erwinia carotovora sub.sp. *carotovora* (L.R. Jones) Bergey, et al., soft rot, on (8): '181', on (9): '28', and on (10): '98'.

Heterodera schachtii Schmidt, sugarbeet cyst nematode, on (9): '281'.

H. trifolii Goffart, clover cyst nematode, on (4): '120'.

Marasmius sp., on living leaves of (12): '15'.

Meloidogyne sp., root-knot nematode, on (1): '278', on (6): '215', on (9): '281', and on (11): '278'.

Mycosphaerella brassicicola (Duby) Lindau, ringspot, on (9): '225'.

Oidium sp., powdery mildew, on (2): '284'.

Paratylenchus elachistus Steiner (= *P. minutus* Linford), pin nematode, on (9): '168'.

Peronospora parasitica (Pers. ex Fr.) Fr., downy mildew, on (8): '182', on (9): '218', and on (10): '216'.

Phoma lingam (Tode ex Fr.) Desm., black leg, on (2): '284', and on (9): '212'.

Plasmodiophora brassicae Wor., club root, on (9): '218', on (10): '114'.

Pseudomonas syringae pv. *maculicola* (McCull.) Stev., bacterial leafspot, on (4): '281', and on (9): '188'.

Pythium sp., root rot, on (9): '281', and (10): '98'.

BRASSICA (cont'd)

Rhizoctonia (?*solani* Kuehn), root rot, on (1) and (11): '28', on (2): '284', on (9): '225', and (10): '223'.

Rhizopus sp., black-mold rot, on (11): '182'.

Rotylenohulus reniformis Linford & Oliveira, reniform nematode, on (7), (8), (9) and (10): '167'.

Sclerotinia sclerotiorum (Lib.) de Bary, sclerotinia rot, on (9): '281', and on (10) : '225' .

Trichodorus sp., stubby-root nematode, on (9): '239'.

Xanthomonas campestris pv. *campestris* (Pamm.) Dowson, black rot, on (8): '218', and on (9): '212'.

X. campestris pv. *vesicatoria* (Doidge) Dows. bacterial leafspot, on (9) : '281' .

Mosaic virus on (1): '36', on (10) : '82', and on (11): '213'

Turnip mosaic virus on (4) and (10): '281'.

BRASSOCATTLEYA Hort.

ORCHIDACEAE

(1) *B.* sp.

Cymbidium mosaic virus, '281'.

Odontoglossum ringspot virus, '281'.

BRASSOEPIDENDRUM Hort.

ORCHIDACEAE

(1) *B.* sp.

Cymbidium mosaic virus, '281'.

BRASSOLAELIOCATTLEYA Hort.

ORCHIDACEAE

(1) *B.* sp.

Cymbidium mosaic virus, '281'.

Odontoglossum ringspot virus, '281'.

| | |
|---|---------------|
| BREYNIA J.R. & J.G.S. Forst. | EUPHORBIACEAE |
| (1) <i>B. nivosa</i> (W.G.Sm.) Small, snow bush | |
| <i>Rhizoctonia</i> sp., root rot, '281'. | |
| <i>Xylaria</i> sp., '2 81'. | |
| BRIGHAMIA Gray | CAMPANULACEAE |
| (1) <i>B.</i> sp. | |
| <i>Meloidogyne</i> sp., root-knot nematode, '278'. | |
| BROMELIA L. | BROMELIACEAE |
| (1) <i>B.</i> sp. | |
| <i>Helicotylenchus</i> sp., spiral nematode, '281'. | |
| BROMUS L. | GRAMINEAE |
| (1) <i>B. catharticus</i> Vahl , rescue grass | |
| (2) <i>B. secalinus</i> L., soft chess | |
| <i>Helicotylenchus dihystra</i> (Cobb) Sher (syn.: <i>Tylenchus spiralis</i> Cassidy), on (2): '284'. | |
| <i>Meloidogyne</i> sp., root-knot nematode, on (2): '278'. | |
| <i>Ustilago bullata</i> Berk., on (1): '215'. | |
| BROUSSAISIA Gaud. | SAXIFRAGACEAE |
| (1) <i>B. pellucida</i> Gaud., pu'aha-nui | |
| (2) <i>B.</i> sp. | |
| <i>Phytophthora cinnamomi</i> Rands, root rot, (1): '146'. | |
| <i>Trichothallus hawaiiensis</i> Stevens, on (2): '250'. | |

BUDDLEJA L.

LOGANIACEAE

(1) *B. asiatica* Lour., butterfly bush

Rotylenchulus reniformis Linford & Oliveira, reniform nematode, '167'.

BUXUS L.

BUXACEAE

(1) *B. microphylla* Sieb. & Zucc. var. *japonica* (Muell.-Arg.) Rehd. & Wils.,
box

Pythium sp., root rot, '281'.

CAJANUS DC.

LEGUMINOSAE

(1) *C. cajan* (L.) E. Huth, pigeon pea

Agrobacterium tumefaciens (E.F.Sm. & Towns.) Conn, crown gall '284'.

Meloidogyne sp., root-knot nematode, '284'.

Phytophthora cinnamomi Rands, root rot, '194'.

P. dreohsleri Tucker, '246'.

P. palmivora Butl., '194'.

P. parasitica Dast., '194'.

Pythium arrhenomanes Drechsl., root rot, '243'.

P. artotrogus (Mont.) de Eary, root rot, '243'.

P. debaryanum Hesse, root rot, '243'.

P. irregulare Buis., root rot, '243'.

P. rostratum Butl., root rot, '243'.

P. splendens Braun, root rot, '243'.

Radopholus similis (Cobb) Thorne (= *Rotylenchus* s. (Cobb) Filip.), burrowing
nematode, '41'.

Rhizoctonia sp., root rot, '279'.

CAJANUS (cont'd)

Rotylenchulus reniformis Linford & Oliveira, reniform nematode, '167'.

Sclerotium rolfsii Sacc., southern blight, '198'.

Stemphylium sp., leafspot, '106'.

CALATHEA G.F.W. Mey.

MARANTACEAE

(1) *C. metallica* (K. Koch) Koern. & Regel, zebra plant

(2) *C. picturata* K. Koch & Lindl.

(3) *C. picturata* K. Koch & Lindl. (= *C. vandenheckii* (Lem.) Regel)

(4) *C. sp.*

Helicotylenchus sp., spiral nematode, on (2): '281'.

Meloidogyne sp., root-knot nematode, on (1) and (3): '281'.

Radopholus sp., burrowing nematode, on (1): '281'.

Rhizoctonia sp., root rot, on (4): '281'.

CALENDULA L.

COMPOSITAE

(1) *C. officinalis* L.

Meloidogyne sp., root-knot nematode, '284'.

Rotylenchulus reniformis Linford & Oliveira, reniform nematode, '167'.

CALLISTEPHUS Cass.

COMPOSITAE

(1) *C. chinensis* (L.) Nees, China aster

(2) *C. sp.*

Fusarium sp. (=? *F. oxysporum* Schlecht. f. *callistephi* (Beach) Snyder & Hans.), wilt, on (1): '218'.

Phomopsis callistephi Tenon & Daniel, stem canker, on (1): '281'.

CALLISTEPHUS (cont'd)

Pythium splendens Braun, root rot, on (1): '281'.

Rhizoctonia sp., root rot, on (1): '281', and (2): '217'.

Rotylenohulus reniformis Linford & Oliveira, reniform nematode, on (1): '167'.

Septoria callistephi Gloyer, leafspot, on (1): '216'.

Spotted wilt virus on (1): '237'.

CALONYCTION Choisy

CONVOLVULACEAE

(1) *C. aculeatum* (L.) House (= *Ipomoea alba* L.), moon flower

Ramularia ipomoeae Stevens, leafspot, associated with *Sphaerulina i. q.v.*), '250'.

Sphaerulina ipomoeae Stevens, on leaves, '250'.

CALOPHYLLUM L.

CLUSIACEAE or
GUTTIFERAE

(1) *C. inophyllum* L., kamani

Cuscuta sandwichiana, dodder, '225'.

CALOPOGONIUM Desv.

LEGUMINOSAE

(1) *C. caeruleum* (Benth.) Hemsl .

Meloidogyne incognita (Kofoid & White) Chitwood, root-knot nematode, '119'.

CANAVALIA DC.

LEGUMINOSAE

(2) *C. ensiformis* (L.) DC, jack bean

(3) *C. gladiata* (Jacq.) DC, sword bean

(4) *C. hawaiiensis*

(5) *C. sp.*

CANAVALIA (cont'd)

Colletotrichum gloeosporioides (Penz.) Sacc, anthracnose, on (1): '171'.

Enchnoa canavaliae Stev. & Young, on (4): '15'.

Fusarium sp., on (1): '171'.

Fusicoccum canavaliae Lyon, on (1): '171'.

Meloidogyne sp., root-knot nematode, on (1): '171', and (2): '278'.

Pythium artotrogus (Mont.) de Bary, root rot, on (1): '243'.

P. debaryanum Hesse, root rot, on (1): '243'.

P. irregulare Buis., root rot, on (1): '243'.

P. rostratum Butl., root rot, on (1): '243'.

P. splendens Braun, root rot, on (1): '243'.

Septoria canavaliae Lyon, leafspot, on (1): '171', and (4): '258'.

S. cf. mollereana on (3): '76'.

CANNA L.

CANNACEAE

(1) *C. edulis* Ker.-Gawl., edible canna

(2) *C. generalis* Bailey

(3) *C. indica* L., ornamental canna

Colletotrichum gloeosporioides (Penz.) Sacc, anthracnose, on (3): '227'.

Meloidogyne sp., root-knot nematode, on (1): '227'.

Puccinia thaliae Diet, (syn.: *P. cannae* P. Henn.), rust, on (2) "and (3): '281'.

Radopholus similis (Cobb) Thorne (= *Rotylenchus* s. (Cobb) Filip.), burrowing nematode, on (1): '80'.

Mosaic virus on (3): '155'.

CAPPARIS L.

CAPPARIDACEAE

(1) *C. sandwichiana* DC, pua-pilo
Meliola bidentata Cke., sooty mold, '281'.

CAPSICUM L.

SOLANACEAE

(1) *C. frutescens* L. (= *C. annuum* L.), sweet pepper
Cercospora capsici Heald & Wolf, leafspot, '213'.
Colletotrichum gloeosporioides (Penz.) Sacc, anthracnose, '216'.
Erwinia carotovora sub.sp. *carotovora* (L.R. Jones) Bergey et al., soft rot, '281'.
Fusarium sp., '215'.
Gloeosporium sp., '212'.
Meloidogyne sp., root-knot nematode, '216'.
Phyllosticta sp., leafspot, '279'.
Phytophthora capsici Leonian, crown rot, '281'.
Pythium aphanidermatum (Edson) Fitzp., root rot, '281'.
Rhizoctonia sp., root rot, '281'.
Rotylenchulus reniformis Linford & Oliveira, reniform nematode, '281'.
Sclerotinia sclerotiorum (Lib.) de Bary, sclerotinia rot, '281'.
Sclerotium rolfsii Sacc, southern blight, '213'.
Stemphylium solani Weber, leafspot, '281'.
Xanthomonas campestris pv. *vesicatoria* (Doige) Dows., bacterial spot, '212'.
Mosaic virus, '218'.
Potato Y virus, mosaic, '196'.

CAPSICUM (cont'd)

Spotted wilt virus, '196', '237'.

Tobacco mosaic virus, '196'.

Tobacco etch virus, '196'.

CAREX L.

CYPERACEAE

(1) *C. wahuensis* C.A. Meyer

(2) *C. sp.*

Puccinia molokaiensis Cummins, rust, on (2): '62'.

Uredo hawaiiensis Arthur, rust, on (1): '250'.

CARICA L.

CARICACEAE

(1) *C. cauliflora* Jacq.

(2) *C. papaya* L., papaya

Alternaria alternata (Fr.) Keissler (*A. tenuis* Auct. sensu Wiltshire), fruit spot, on (2): '281', and (?) on (2): '280'.

Ascochyta caricae Pat., stem-end rot, on (2): '4', '126'; (?) on (2): '280'.

Botryodiplodia theobromae Pat., fruit rot, on (2): '125', '126'.

Calonectria crotalariae (Loos) Bell & Sobers, collar rot, on (1): '158', '203', and (2): '10', '132', '203'.

C. sp. (anamorph: *Cylindrocladium sp.*), collar rot, on (1): '158'.

Cercospora mamaonis Viegas & Chupp, leaf and fruit spot, on (2): '198'.

C. papayae Hansford, leafspot, on (2): '281'. *Cladosporium sp.*, internal "smut", on (2): '217'.

Colletotrichum gloeosporioides (Penz.) Sacc, on (2): '4', '126', '217', '270'.

CARICA (cont'd)

Didymella sp., on (2): '217'.

Erwinia herbicola (Loehnis) Dye, purple stain, on (2): '202'

Fusarium solani (Mart.) Appel & Wr., fruit rot, on (2): '126'.

F. sp., fruit dry rot, on (2); '279'.

Helicotylenchus sp., spiral nematode, on (2): '160'.

Meloidogyne hapla Chitwood, root-knot nematode, on (2): '119' .

M. incognita var. *acrita* Chitwood, root-knot nematode, on (2) '239'.

M. sp., on (2): '216' .

Mycosphaerella sp. (anamorph: *Ascochyta caricae* Pat.), stem-end rot, on (2): '45'.

Oidium caricae Noack, powdery mildew, on (2): '223'.

Penicillium sp., on (2): '15'.

Phomopsis sp., stem-end fruit rot, on (2): '126', '188'.

Phyllosticta sp., leafspot, on (2): '217'.

Phytophthora capsici Leonian, fruit rot, on (2): '13'.

P. palmivora Butl., on (2): '13', '131', '243'.

P. parasitica Dast., fruit and stem rot, damping off, on (2): 113', '194'.

Pratylenchus sp., lesion neraatode, on (2): '119'.

Pythium aphanidermatum (Edson) Fitzp., on (2): '244'.

P. ultimum Trow, damping off, on (2): '227'.

P. vexans de Bary, on (2): '246'.

P. sp., on (2): '217'.

Rhizoctonia sp., root rot, on (2): '281'.

CARICA (cont'd)

Rhizopus stolonifer (Ehr. ex Fr.) Vuill., watery soft rot of fruit, on (2): '126', '280'.

Rotylenchulus reniformis Linford & Oliveira, reniform nematode, on (2): '167'.

Sphaerotheca sp., powdery mildew, on (2): '279'.

Stemphylium sp., leafspot, on (2): '280'.

Mosaic virus and papaya mosaic virus on (2): '121'.

Papaya ringspot virus on (2): '106', '134'.

Tomato spotted wilt virus on (2): '281'.

Yellow crinkle virus on (2): '216'.

CARISSA L.

APOCYANACEAE

- (1) *C. grandiflora* (E. Meu) A.DC. (= *C. macrocarpa* (Eckl.) DC), Natal plum

Rhizoctonia sp., root rot, '281'.

CASIMIROA La Llave & Lex.

RUTACEAE

- (1) *C. edulis* La Llave in La Llave & Lex., white sapote

Phyllosticta casimiroae Stev. & Weedon, '250'.

CASSIA L.

LEGUMINOSAE

- (1) *C. bicapsularis* L.
(2) *C. leschenaultiana* DC, partridge pea, lauki
(3) *C. occidentalis* L., coffee senna
(4) *C. tora* L., sickle senna, sickle pod

Cassytha filiformis L., parasitic vine, on (2): '225'.

Cuscuta sandwichiana Choisy, dodder, on (2): '225'.

CASSIA (cont'd)

Meloidogyne sp., root-knot nematode, on (2), (3), and (4): '278'.

Oidium sp., powdery mildew, on (3): '250'.

Pratylenchus pratensis (de Man) Filip., lesion nematode, on (2) and (3): '278'.

Tryblidiella rufula (Spreng.) Sacc., on dead plants of (1): '39'.

CASUARINA Adans.

CASUARINACEAE

(1) *C. equisetifolia* L., ironweed

(2) *C. sp.*

Allescheriella crocea (Mont.) Hughes, on (2): '15'.

Ganoderma applanatum (Pers. ex Wallr.) Pat. (syn.: *Fomes a.* (Pers. ex Wallr.) Gill.), wood rot, on (2): '284'.

Helicosporium panacheum Moore, developed in moist chamber on fruit of (1) from Oahu: '93'.

Sebacina sp., on (2): '15'.

CATASETUM L.C. Rich, in Kunth

ORCHIDACEAE

(1) *C. pileatum* x *saccatum*

Cymbidium mosaic virus, '281'.

CATHARANTHUS D. Don

APOCYNACEAE

(1) *C. sp.*

Phytophthora parasitica Dastur, '281'.

CATTLEYA Lindl.

ORCHIDACEAE

(1) *C. sp.*

Alternaria sp., leafspot, '107'.

CATTLEYA (cont'd)

Colletotrichum gloeosporioides (Penz.) Sacc, leafspot, '225'.

C. sp., '107'.

Erwinia carotovora subsp. *carotovora* (L.R. Jones) Bergey, et al., soft rot, '185'.

Fusarium sp., '198'.

Helicotylenohus sp., spiral nematode, '133'.

Macrophoma cattleyicola P. Henn., '250'.

Paratylenchus sp., pin nematode, '133'.

Phytophthora palmivora Butl. root rot, '102'.

Cattleya color break virus, '98'.

Cattleya necrosis virus, '98'.

Cymbidium mosaic virus, '281'.

Diamond spot virus, '98'.

Leaf necrosis virus, '98'.

Mosaic virus, '107'.

Odontoglossum ringspot virus, '281'.

CAULARTHRON Rafin.

ORCHIDACEAE

(=Diacrium (Lirdl.) Benth.)

(1) *C. sp.*

Cymbidium mosaic virus, '281'.

Odontoglossum ringspot virus, '281'.

CELOSIA L.

AMARANTHACEAE

(1) *C. argentea* L. var. *cristata* (L.) Ktze., cockscomb

Pythium sp., root rot, '281'.

CELOSIA (cont'd)

Rhizoctonia sp., root rot, '281'.

CENCHRUS L.

GRAMINEAE

(1) *C. echinatus* L. var. *echinatus*, sandbur

(2) *C. echinatus* L. var. *hillebrandianus* (Hitchc.) P.Br., hairy burgrass

Meloidogyne sp., root-knot nematode, on (1): '278'.

Puccinia cenchri Diet. & Holw., rust, on (2): '250'.

CENTELLA L.

UMBELLIFERAE

(1) *C. erecta* L.f. (= *C. asiatica* (L.) Urban), asiatic pennywort

Meloidogyne sp., root-knot nematode, '278'.

Rotylenchulus reniformis Linford & Oliveira, reniform nematode.

Septoria sp., leafspot, '216'.

CEODES Forst.: see *Bougainvillea* (Nyctaginaceae)

CERASTIUM L.

CARYOPHYLLACEAE

(1) *C.* sp., chickweed

Septoria cerastii Rob. & Desm., leafspot, '250'.

CERCROPIA Loefl.

URTICACEAE

(1) *C.* sp.

Mycocalia reticulata (Petch) J.T. Palmer, on petiole, '15'.

CEREUS Mill.

CACTACEAE

(1) *C.* sp.

CEREUS (cont'd)

Gloeosporium cerei Pass. (= *Colletotrichum gloeosporioides* (Penz.) Sacc), anthracnose, '250'.

CHAMAECYPARIS Spach

CUPRESSACEAE

- (1) *C. lawsoniana* (A. Murr.) Parl. in A. DC. Port Orford cedar
- Diplodia natalensis* Pole Evans, '281'.
- Stigmina thujina* (Dearn.) Sutton, needle blight, '282'.

CHAMAEDOREA Willd.

PALMAE

- (1) *C. elegans* Mart., (syn.: *Collinia e.* (Mart.) Leibm.), parlor palm
- (2) *C. sp.* , pacaya
- Gliocladium vermoeseni* (Biourge) Thom, bleeding canker, on (2): '281'.
- Pythium* sp., root rot, on (1): '281'.

CHEIRODENDRON Nutt. ex Seem.

ARALIACEAE

- (1) *C. trigynum* (Gaud.) Heller (syn.: *C. gaudichaudii* (DC.) Seem)
- (2) *C. sp.*
- Acremonium curvulum* W. Gams, on leaf of (2): '15'.
- Asteridiella cheiroidendronis* (Stev.) Hansf. (= *Irene c.* Stevens), sooty mold, on (1): '90', '92', '95', '250'.
- Cylindrocephalum* sp., on (2): '15'.
- Phoma* sp., on leaf of (2): '15'.
- Phytophthora cinnamomi* Rands, root rot, on (2): '130'.

CHENOPODIUM L.

CHENOPODIACEAE

(1) *C. album* L., lambsquarters

Cercospora (?*dubia* (Riess) Wint.), leafspot, on (1): '213'.

Meloidogyne sp., root-knot nematode, on (1): '278'.

Peronospora effusa (Grev. ex Desm.) Ces., downy mildew, on (1): '225'.

CHLORIS Swartz

GRAMINEAE

(1) *C. gayana* Kunth, Rhodes grass

Helicotylenchus dihystra (Cobb) Sher (syn.: *Tylenchus spiralis* Cassidy), spiral nematode, '284'.

Meloidogyne sp., root-knot nematode, on (1): '278'.

CHLOROPHYTUM Ker-Gwal.

LILIACEAE

(1) *C. capense* (L.) Voss, bracket plant

Stagonospora curtisii (Berk.) Sacc, leafspot, '281'.

CHRYSalIDOCARPUS H. Wendl.

PALMAE

(1) *C. lutescens* H. Wendl., golden-fruited palm *Erwinia herbicola* (Loehnis) Dye, '140'.

Exserohilum sp., (= *Helminthosporium* sp.), leafspot, '281'.

Pythium sp., root rot, '281'.

Rhizoctonia sp., root rot, '281'.

CHRYsANTHEMUM L.

COMPOSITAE

(1) *C. frutescens* L. , marguerite

(2) *C. indicum* L .

(3) *C. maximum* Ram., shasta daisy

CHRYSANTHEMUM (cont'd)

(4) *C. morifolium* Ram., florist's chrysanthemum

Agrobacterium tumefaciens (E.F.Sm. & Towns.) Conn., crown gall, on (1): '281'.

Aphelenchoides besseyi Christie, foliar nematode, on (3) and (4): '239'.

A. ritzema-bosi (Schwartz) Steiner & Buhrer, foliar nematode, on (4) : '239'.

Ascochyta chrysanthemi Stevens, ray blight, on (4): '281'.

Botrytis cinerea Pers. ex Fr., leaf blight, on (4): '281'.

Erwinia ohrysanthemis Burkh., bacterial blight, on (4): '281'.

Meloidogyne sp., root-knot nematode, on (1): '119', and (4): '281'.

Oidium sp., powdery mildew, on (4): '281'.

Pratylenchus coffeae (Zimm.) Filip. & Sch. Stekh., lesion nematode, on (1): '119'.

Pseudomonas cichorii (Swingle) Stapp, bacterial leafspot, on (4): '281'.

Puccinia chrysanthemi Roze, rust, on (2): '250', and (4): '281'.

Pythium sp., root rot, on (4): '281'.

Radopholus similis (Cobb) Thorne, burrowing nematode, on (1): '119'.

Rhizoctonia sp., root rot, on (4): '281'.

Rotylenchulus reniformis Linford & Oliveira, reniform nematode, on (1): '119'.

Sclerotinia sclerotiorum (Lib.) de Bary, sclerotinia rot, on (4) : '281'.

Sclerotium rolfsii Sacc, southern blight, on (4): '281'.

Scutellonema brachyurum (Steiner) Andrassy, on (1): '119'.

CHRYSANTHEMUM (cont'd)

Septoria leucanthemi Sacc. & Speg., leafspot, on (3): '225'

S. rostrupii Sacc. & Syd., leafspot, on (1): '250'.

S. sp., leafspot, on (4): '225'.

Tomato spotted wilt virus on (4): '281'.

CHRYSOPHYLLUM L.

SAPOTACEAE

(1) *C. cainito* L., star apple

(2) *C. oliviforme* L., satin leaf

Gloeosporium sp., on (1): '27'.

Radopholus sp., burrowing nematode, on (2): '281'.

CHRYOTHEMIS Decne.

GESNERACEAE

(1) *C. pulchella* (Donn & Sims) Decne.

Pythium sp., root rot, '281'.

CIBOTIUM Kaulf.

DICKSONIACEAE

(1) *C. chamissoi* Kaulf., Hawaiian tree fern

(2) *C. glaucum* (J.E.Sm.) Hook. & Arn.

(3) *C. menziesii* Hook.

(4) *C. splendens* (Gaud.) Krajina

(5) *C. sp.*

Asterina sp., on (5): '279'.

Coccostroma polymorphum (Lyon) Mueller & v. Arx (= *Yoshinagella p.* Lyon in Stevens), on (1): '250'.

Corticium arachnoideum Berk., on dead "stems" of (5): '26'.

Cuscuta sandwichiana Choisy, dodder, on (1): '225'.

CIBOTIUM (cont'd)

Dasyscypha gleicheniae (Cash) Dennis (=*Laehnum g* . Cash), on (5): '39'.

D. javanica Penz. & Sacc, on (3): '39'.

Epithele hydroides Burt, on dead "stems" of (5): '26'.

Exoioconidium cibotii Plunkett, on dead plants of (1): '250'.

Helminthosporium cibotii Stevens & Weedon, on (5): '250'.

Helotium cremoneum Cash, on (5): '39'.

Pezizella chrysostigma (Fr.) Sacc, on (5): '39'.

Phyllachora cibotii Hodges, stipe spot, on (2): '282', '116'.

Phytophthora cinnamomi Rands, root rot, on (1), (2) and (4): '146'.

Sphaerulina cibotii Stev. & Guba, leafspot, on (3): '250', and (5): '279'.

Stictis radiata L. ex Pers. , on (5): '39'.

Trichothallus hawaiiensis Stevens, fly-speck, on (5): '284'.

Yoshinagella nuda Stevens, on (1): '250'.

Y. polymorpha Lyon var. *pauciseta* Stevens, on (1): '250', but see *Coccostroma polymorphum* above.

CINNAMOMUM Schaeffer

LAURACEAE

(1) *C. camphora* (L.) Sieb .

Pythium splendens Braun, root rot, '27'.

CITRULLUS Schrad.

CUCURBITACEAE

(1) *C. vulgaris* Schrad. (= *C. lanatus* (Thunb.) Matrum. & Nakai),
watermelon

Colletotrichum lagenarium (Pers.) Ell. & Halst. (= *C. orbiculare* (Berk. & Curt.) v. Arx), anthracnose, '213'.

CITRULLUS (cont'd)

Erwinia carnegiana Lightle, Standring and Brown, bacterial spot, '281'.

Erwinia sp., '45'.

Fusarium oxysporum Schlecht, f. *niveum* (E. F. Sm.) Snyder & Hans., fusarium wilt, '216'.

Helicotylenchus sp., spiral nematode, '281'.

Mycosphaerella citrullina (C.O.Sm.) Gross., gumming stem blight, '281'.

Pseudoperonospora cubensis (Berk. & Curt.) Rostov, downy mildew, '213'.

Pythium aphanidermatum (Edson) Fitzp., root rot, '281'.

Rhizoctonia sp., root rot, '281'.

Rotylenchulus reniformis Linford & Oliveira, reniform nematode, '281'.

Sclerotium rolfsii Sacc., southern blight, '213'.

Cucumber mosaic virus, '213'.

Mosaic virus, '279'.

Papaya mosaic virus, '201'.

Watermelon mosaic virus, '281'.

CITRUS L.

RUTACEAE

- (1) *C. aurantifolia* (Christman) Swingle, lime
- (2) *C. aurantium* L., Seville orange
- (3) *C. grandis* (L.) Osbeck, pummelo
- (4) *C. limonia* Osbeck, lemon
- (5) *C. paradisi* Macf., grapefruit
- (6) *C. reticulata* Blanco, tangerine

CITRUS (cont'd)

(7) *C. sinensis* (L.) Osbeck, sweet orange

(8) *C. sp.*

Capnodium sp., on (6) and (7): '280'.

Colletotrichum sp., on (4): '223'.

Diaporthe citri (Fawc.) Wolf, gummosis, on (1) and (5): '281', on (6) and (7): '225'.

Elsinoe fawcettii Bltanc. & Jenkins, scab, on (1) and (5): '281', on (2): '284', on (4), (6) and (7): '225'.

Gloeosporium limetticola Clausen (= *Colletotrichum gloeosporioides* (Penz.) Sacc), anthracnose, on (1) and (4): '223', on (2), (5), (6), (7) and (8): '225'.

Helicotylenchus sp., spiral nematode, on (5): '281'.

Penicillium digitatum Sacc., green mold, on (7): '281'.

P. italicum Wehmer, contact mold, on (1): '223', on (2): '15', on (6): '225', and on (7): '37'.

Phytophthora citrophthora (R.E. & E.H.Sm.) Leonian, fruit brown rot, on (1): '223', on (2): '15' and (7): '225'.

P. sp., on (1): '280'.

Pythium sp., root rot, on (6): '281'.

Sphaceloma fawcettii Jenkins (anamorph of *Elsinoe* f. q.v.) on (8): '215'.

Sphaeropsis tumefaciens Hedges, branch knot, on (8): '284'.

Tylenchulus semipenetrans Cobb, citrus nematode, on (8): '239'.

Tristeza virus on (1), (3) and (5): '253', and (6): '281'.

Woody gall virus on (3): '281'.

CLADIUM P. Brown

CYPERACEAE

(1) *C. angustifolium* (Gaud.) Benth. & Hook

CLADIUM (cont'd)

(2) *C. ?leptostachyum* Nees in Meyen

(3) *C. ?meyenii* (Kunth) Benth.

(4) *C. sandwicense* Muell.-Arg.

Asterina ildefonsiae (Rehm) Theiss., on (4): '250'.

Aulographella baumeae Stevens & Ryan, on (3): '250'.

Lophodermium arundinaceum (Schrad.) Chev., on (1): '250'.

Meliola argentina Speg., on (3): '96'.

M. cyperi Pat., on (1), (2) and (3): '250'.

M. morbosa Stevens, on (*!): '96', '250'.

Pestalotia sp. , on (1) and (3): '250'.

Trichopeltis reptans Speg. , on (1) and (3): '250'.

Triehothallus hawaiiensis Stevens, on (1): '250'.

CLAOXYLON A. Juss.

EUPHORBIACEAE

(1) *C. sandwicense* Muell.-Arg.

Asterina ildefonsiae (Rehm) Theiss., '15'.

Meliola morbosa Steven, '96'.

CLERMONTIA Gaud.

LOBELIACEAE

(1) *C. kakeana* Walp.

(2) *C. multiflora* Hbd.

(3) *C. parviflora* Gaud, ex Gray (*C. ?oblongiflora*) oha wai

(4) *C. persicaefolia* Gaud.

(5) *C. sp.* (= *C. ?sandwichiensis*)

Amazonia clermontiae Hansf., on (2), (4) and (5): '96'.

CLERMONTIA (cont'd)

A. psychotriae (P. Henn.) Theiss., on (2) and (5): '250'.

Asterina clermontiae Stevens & Ryan, on (5): '250'.

Calothyriopeltis clermontiae Stev. & Ryan, on (3): '250'.

Clypeolella clermontiae Stev. & Ryan, on (5): '250'.

Meliola lobeliae Stevens, on (5): '96', '250'.

Septoria clermontiae Stev. & Young, on (1) and (5): '250'.

Trichopeltis reptans Speg., on (2) and (5): '250'.

Trichothallus hawaiiensis Stevens, on (5): '250'.

CLERODENDRUM L.

VERBENACEAE

- (1) *C. fragrans* (Vent.) R.Br. var. *pleniform* Schauer (=*C. japonicum*
(Thunb.) Sweet var. *p.* (Schau.) Maheshwari), pikake hohono

Veinclearing virus, '225'.

CLIDEMIA D. Don

MELASTOMATACEAE

- (1) *C. hirta* D. Don

Microsphaeropsis clidemiae Sutton, on leaves, '255'.

COCCOLOBA P. Browne

POLYGONACEAE

- (1) *C. uvifera* (L.) , sea-grape

Rotylenchulus reniformis Linford & Oliveira, reniform nematode, '167'.

COCCULUS DC.

MENISPERMIACEAE

- (1) *C. ferrandianus* Gaud., huhue

Echidnodella cocculi Stev. & Ryan, '250'.

COCOS L.

PALMAE

- (1) *C. nucifera* L., coconut palm

Ceratocystis paradoxa (de Seynes) Moreau, bleeding canker, '281'.

Cuscuta sandwichiana Choisy, dodder, '225'.

Diplodia natalensis Pole Evans, '281'.

Endocalyx melanoxanthus (Berk. & Br.) Petch, '284'.

Graphium sp., '225'.

Melanconium sp., '279'.

Pestalotia sp., '15'.

Phytophthora katsurae Ko & Chang (=*P. castaneae* Katsura & Uchida, 1976, non (Mangin) Clements & Shear, 1930), '148'

P. palmivora Butl., '15'.

P. sp., '217'.

CODIAEUM Juss.

EUPHORBIACEAE

- (1) *C. variegatum* (L.) Blume, croton

- (2) *C. variegatum* (L.) Blume var. *moluccanum* (Decne.) Muel1.-Arg.

- (3) *C. variegatum* (L.) Blume var. *pictum* (Lodd.) Muel1.-Arg.

- (4) *C. sp.*

Hoplolaimus sp., nematode, on (4): '239'.

Meloidogyne sp., root-knot nematode, on (1): '281'.

Phyllostiota codiae Stev. & Young, on (2): '250'.

Pythium aphanidermatum (Edson) Fitzp., root rot, on (1): '281'.

Rhizoctonia sp., root rot, on (1): '281'.

CODIAEUM (cont'd)

Verticillium sp., on (3): '280'.

COFFEA L.

RUBIACEAE

(1) *C. arabica* L., Arabian coffee

(2) *C. robusta* Linden

(3) *C. sp.*

Botryotinia fuckeliana (de Bary) Whetzel (= *Sclerotinia f.* (de Bary) Fuckel), gray-mold rot, on (1): '279'.

Capnodium sp., on (3): '28'.

Cercospora coffeicola Berk. & Cke., leaf spot, on (1): '250' and on (2): '281'.

Gloeosporium sp., leafspot, on (3): '27'.

Helicotylenchus sp., spiral nematode, on (1): '281'.

Meloidogyne sp., root-knot nematode, on (1): '280'.

Pratylenchus sp., lesion nematode, on (1): '119'.

COIX L.

GRAMINEAE

(1) *C. lachryma-jobi* L., Job's tears

Cassytha filiformis L., parasitic vine, '225'.

Phyllosticta sp., leafspot, '284'.

Mosaic virus, '225'.

COLEUS Lour.

LABIATAE

(1) *C. blumei* Benth., coleus

(2) *C. sp.*

Aphelenchoides besseyi Christie, foliar nematode, on (1): '239'.

COLEUS (cont'd)

Cassytha filiformis L., parasitic vine, on (1): '225'.

Meloidogyne sp., root-knot nematode, on (1): '284' and (2): '216'.

Rotylenchulus reniformis Linford & Oliveira, reniform nematode, on (1): '167'.

COLLINIA (Liebm.) Liebm. ex Oersted: see *Chamaedorea* (Palmae)

COLOCASIA Schott

ARACEAE

(1) *C. esculenta* (L.) Schott, taro

(2) *C. esculenta* (L.) Schott var. *globulifera* (Engl. & Krausse) Young,
dasheen

Allomyces arbuscula Butl., on (1): '248'.

Amanita sp., on (1): '175'.

Cercospora sp. (= *C. ?colocasiae* (Hoehn.) Chupp), cercospora leafspot, on (1): '284'.

Cladosporium sp., cladosporium leafspot, on (1): '219', '250'.

Erwinia carotovora subsp. *carotovora* (L.R. Jones) Bergey et al., soft rot, on (1): '212'.

Fusarium roseum Lk. em Snyder & Hans., corm rot, on (1): '210'.

F. solani (Mart.) Sacc, corm rot, on (1): '210'.

F. sp., on (2): '280'.

Macrosporium sp. (= *?Stemphylium* sp.), on (1): '215'.

Meloidogyne sp., root-knot nematode, on (1): '215', '219'.

Phyllosticta colocasiophila Weedon, phyllosticta leafspot, on (1) : '219', '250'.

Phytophthora colocasiae Racib., phytophthora leaf blight, on (1): '29', '219'.

COLOCASIA (cont'd)

Pratylenchus sp., lesion nematode, on (2): '281'.

Pythium aphanidermatum (Edson) Fitzp., root and crown rot, on (1): '268'.

P. carolineanum, root and corm rot, on (1): '211'.

P. debaryanum Hesse, on (1): '29'.

P. graminicola Subram., root and corm rot, on (1): '268'.

Rhizoctonia (solani) Kuehn, pocket rot, on (1): '210'.

R. sp. , on (2): '281'.

Rhizopus stolonifer (Ehr. ex Fr.) Vuill., corm rot in storage, on (1) : '209'.

Sclerotium rolfsii Sacc, corm rot and set rot, on (1): '210', '219'.

Dasheen mosaic virus on (1): '281'.

COMMELINA L.

COMMELINACEAE

(1) *C. diffusa* Burm.f., (*C. nudiflora* L. , creeping dayflower), honohono grass

Cassytha filiformis L., parasitic vine, '225'.

Cuscuta sandwichiana Choisy, dodder, '225'.

Hirschmanniella gracilis (de Man) Luc & Goodey, nematode, '119',

Meloidogyne sp., root.-knot, nematode, '278'.

Phakopsora tecta, (s y n: *Physopella tecta*) , '75' .

Pratylenchus pratensis (de Man) Filip., lesion nematode, '278'.

Pythium arrhenomanes Drechsl . , '244'.

Uromyces commelinae (Speg.) Cke., rust, '281'.

Cucumber mosaic virus, '225', '284'.

COMMELINA (cont'd)

Mosaic virus, '225', '38'.

Spotted mosaic virus, '98'.

CONVOLVULUS L.

CONVOLVULACEAE

(1) *C. arvensis* L., bindweed

Meloidogyne sp., root-knot nematode, '278'.

COPROSOMA J.R. & J.G.A. Forst.

RUBIACEAE

(1) *C. ernodeoides* Gray, kukai-nene

(2) *C. menziesii* Gray, pilo

(3) *C.* sp.

Actinodothidopsis coprosomae Stevens, on (3): '250'.

Amazonia psychotriae (P. Henn.) Theiss., on (3): '250'.

Armillaria mellea (Vahl ex Fr.) Kummer, root rot, on (3): '159'.

Phytophthora cinnamomi Rands, root rot, on (1) and (2), the latter moderately tolerant to infection: '146'.

CORDYLINE Comm. ex Juss.

AGAVACEAE

(1) *C. terminalis* (L.) Kunth., ti

Capnodiopsis sp., '33'

Cercospora cordylines P. Henn., leafspot, '188'.

Helicotylenchus dihystra (Cobb) Sher, spiral nematode, '119'.

Meloidogyne javanica (Traub) Chitwood, root-knot nematode, '119'.

Phyllosticta cordylinophila Young, on living leaves, '250'.

P. ?dracaenae P. Henn., leafspot, '281'.

CORDYLINE (cont'd)

Phytophthora parasitica Dast., leafspot, '269'.

Pseudomonas sp., bacterial leafspot, '227'.

Pythium aphanidermatum (Edson) Fitzp., root rot, '281'.

Rotylenchulus reniformis Linford & Oliveira, reniform nematodes, '119'.

Scutellonema brachyurum (Steiner) Andrassy, nematode, '119'.

Xanthomonas sp., leaf streak, '281'.

COREOPSIS L.

COMPOSITAE

(1) *C. lanceolata* L., tickweed

(2) *C.* sp.

Oldium sp., powdery mildew, on (2): '250'.

Rhizoctonia sp., root rot, on (1): '281'.

Sclerotium rolfsii Sacc., southern blight, on (2): '30'.

CORIANDRUM L.

UMBELLIFERAE

(1) *C. sativum* L., coriander

Alternaria sp., '225'.

Phytophthora parasitica Dast., root rot, '112'.

Rhizoctonia sp., crown and root rot, '281'.

CORONILLA L.

LEGUMINOSAE

(1) *C. varia* L., crown vetch

Meloidogyne sp., root-knot nematode, '281'.

Rhizoctonia sp., root rot, '281'.

CORTADERIA Stapf

GRAMINEAE

- (1) *C. selloana* (Schult.) Aschers. (syn.: *C. argentea* Stapf), pampas grass

Apiospora montagnei Sacc., '250'.

COSMOS Cav.

COMPOSITAE

- (1) *C. bipinnata* Cav., cosmos

Oidium sp., powdery mildew, '216'.

CRINUM L.

AMARYLLIDACEAE

- (1) *C. sp.*

Stagonospora curtisii (Berk.) Sacc, leafspot, '281'.

Mosaic virus, '225'.

CROTALARIA L.

LEGUMINOSAE

- (1) *C. assamica* Benth., Assam rattlebox

- (2) *C. incana* L., velvety rattlebox

- (3) *C. mucronata* Desv., pikakani

- (4) *C. retusa* L.

- (5) *C. ?saltiana* Andr.

- (6) *C. spectabilis* Roth

- (7) *C. usaramaensis* Baker.f.

- (8) *C. sp.*

Calonectria crotalariae (Loos) Bell & Sobers, collar rot, on (2), (3), (4) and (5): '203'.

Cercospora dementrioniana Winter, leafspot, on (3) and (5): '225' , '15'.

Cuscuta sandwichiana Choisy, dodder, on (1) and (3): '225'.

CROTALARIA (cont'd)

Fusarium oxysporum Schlecht., wilt, on (7): '279'.

F. vasinfectum Atk., on (6): '15'.

Meloidogyne sp., root-knot nematode, on (3), (7) and (8): '278', and on (5): '284'.

Phytophthora palmivora Butl., root rot, on (2): '194', and (7): '278'.

P. parasitica Dastur, root rot, on (2): '194' and (8): '278'.

Tylenchorhynchus sp., stunt nematode, on (8): '281'.

Mosaic virus on (6): '216'.

CRYPTOCARYA R.Br.

LAURACEAE

(1) *C. mannii* Hbd., holio

Asteridiella sheariana Hansf., '96'.

Meliola praetervita Gaill. (as *M. peleae* Stevens, '250'), '96'.

CTENANTHE Eichl.

MARANTACEAE

(1) *C. oppenheimiana* (Morr.) K. Schum., ctenanthe

Rhizoctonia sp., root rot, '281'.

CUCUMIS L

CUCURBITACEAE

(1) *C. melo* L. var. *melo*, muskmelon

(2) *C. melo* L. var. *cantalupensis* Naud., cantaloupe

(3) *C. sativus* L., cucumber

Alternaria cucumerina (Ell. & Ev.) J.A. Elliot, leaf blight on (3): '217'.

Cercospora citrullina Cke., leafspot, on (3): '281'.

CUCUMIS (cont'd)

Choanephora cucurbitarum (Berk. & Rav.) Thaxter, on (3): '281'.

Colletotrichum orbiculare (Berk. & Mont.) v. Arx (=C.

lagenarium (Pass.) Ell. & Halst.), anthracnose, on (1): '212', and (2): '213'.

Fusarium oxysporum Schlecht. f. *melonis* (Leach & Currence) Snyder, & Hans., fusarium wilt, on (1): '280'.

Helicotylenchus dihystra (Cobb) Sher, spiral nematode, on (3): '281'

Meloidogyne sp., root-knot nematode, on (2): '281', and (3): '216'.

Mycosphaerella citrullina (C.O.Sm.) Gross., gummy stem blight, on (2) and (3): '281'.

Oidium sp., powdery mildew, on (3): '213'.

Paratylenchus elachistus Steiner (=*P. minutus* Linford), pin nematode, on (3): '168'.

Pseudomonas syringae pv. *lachrymans* (E.F.Sm. & Bryan) Carsner, angular leaf spot, on (3): '281'.

Pseudoperonospora cubensis (Berk. & Curt.) Rostow, downy mildew, on (1) and (3): '212', '15' and on (2): '281'.

Pythium aphanidermatum (Edson) Fitzp., on (3): '281'.

P. ultimum Trow, damping-off f, on (1) and (3): '225'.

Rhizoctonia sp., root rot, on (2) and (3): '281'.

Rotylenchulus reniformis Linford & Cliveira, reniform nematode, on (2): '27', and (3): '167'.

Xanthomonas campestris pv. *cucurbitae* (Bryan) Dows., bacterial spot on (3): '280'.

Cucumber mosaic virus on (1) and (3): '213', and on (3): '238'.

Mosaic virus on (1) and (3): '212'.

Papaya mosaic virus on (1): '201'.

CUCUMIS (cont'd)

Watermelon mosaic virus on (3): '281'.

CUCURBITA L.

CUCURBITACEAE

- (1) *C. maxima* Decne., winter squash
- (2) *C. moschata* Decne., crook-neck squash
- (3) *C. pepo* L., pumpkin
- (4) *C. pepo* L. var. *melopepo* Alef., summer crook-neck squash
- (5) *C. pepo* L. var. *ovifera* Alef., gourd
- (6) *C. sp.*

Choanephora cucurbitarum (Berk. & Rav.) Thaxter, blossom-end rot, on (3): '281'.

Colletotrichum orbiculare (Berk. & Mont.) v. Arx (s y n. : *C. lagenarium* (Pass.) Ell. & Halst.), anthracnose, on (1): '281'.

Mycosphaerella citrullina (C.O.Sm.) Gross., gummy stem blight, on (3): '281'.

Oidium sp., powdery mildew, on (1), (3), (4), (5) and (6): '213'.

Paratylenchus elachistus Steiner (= *P. minutus* Linford), pin nematode, on (3): '168'.

Phytophthora sp., root rot, on (6): '182'.

Pseudoperonospora cubensis (Berk. & Curt.) Rostow, downy mildew, on (3): '212'.

Pythium sp., root rot, on (6): '182', and on (3): '281'.

Rhizoctonia sp., root rot, on (3): '281'.

Rotylenchulus reniformis Linford & Oliveira, reniform nematode, on (1): '167'.

Sclerotium rolfsii Sacc., southern blight, on (1) : '15'.

CUCURBITA (cont'd)

Cucumber mosaic virus on (3): '213'.

Mosaic virus on (1): '280', on (3): '161', and on (4): '225'.

Squash mosaic virus on (3): '281'.

Watermelon mosaic virus on (2), (3) and (6): '281'.

CUPRESSUS L.

CUPRESSACEAE

- (1) *C. lusitanica* Mill., Portuguese cypress
- (2) *C. macrocarpa* Hartw., Monterey cypress
- (3) *C. sempervirens* L., Italian cypress
- (4) *C. sempervirens* L. var. *stricta* Ait.
- (5) *C.* sp.

Cercospora sequoiae Ell. & Ev. (syn.: *C. thujina* Plakidas), needle spot, on (1): '281'.

Cylindrocladium parvum, on (4): '281'.

Helicotylenchus sp., spiral nematode, on (5): '281'.

Pestalotia funerea Desm., on needles of (2): '279'.

Phomopsis sp., twig blight, on (2): '279'.

Pythium ultimum Trow, root rot, on (4): '281'.

P. sp., root rot, on (3): '281'.

Rhizoctonia sp., root rot, on (3): '281'.

Sporonema sp., on (2): '279'.

Xiphinema sp., dagger nematode, on (3): '119'.

CYANEA Coud.

LOBELIACEAE

- (1) *C. angustifolia* (Cham.) Hbd.

CYANEA (cont'd)

(2) *C. sp.*

Mycosphaerella cyaneae Stev. & Young, on leaves of (1): '250'.

Trichopeltis reptans Speg., on (2): '250'.

CYMBIDIUM Swartz

ORCHIDACEAE

(1) *C. sp.*

Botrytis cinerea Pers. ex Fr., botrytis blight, '281'.

Cymbidium mosaic virus, '281'.

Diamond spot virus, '281'.

Mosaic virus, '98'.

Odontoglossum ringspot virus, '281'.

CYMBOPOGON Spreng.

GRAMINEAE

(1) *C. citratus* (DC.) Stapf., lemon grass

Puccinia nakanishikii Diet., rust, '281'.

CYNARA L.

COMPOSITAE

(1) *C. scolymus* L., artichoke

Helicotylenchus sp., spiral nematode, '281'.

Potylenchulus reniformis Linford & Oliveira, reniform nematode, '167'.

Trichodorus sp., stubby-root nematode, '281'.

CYNODON L.C. Rich, in Pers.

GRAMINEAE

(1) *C. dactylon* (L.) Pers., Bermuda grass

(2) *C. dactylon* x *C. tranvaalensis*, tiftwarf grass

Bipolaris cynodontis (Marign.) Shoemaker, leaf blight, on (1) '281'.

CYNODON (cont'd)

Colletotrichum graminicola (Ces.) C.W. Wilson, on culms of (1): '281'.

Criconemoides sp., ring nematode, on (1): '281', and (2): '265'.

Curvularia lunata (Wakker) Boedijn, on (1): '281'.

Helicotylenchus sp., spiral nematode, on (1): '281', and (2): '265'.

Meloidogyne incognita (Kofoed & White) Chitwood, root-knot nematode, on (2): '200'.

M. sp., on (1): '270'.

Phytophthora sp., leafspot, on (1): '188'

Pratylenchus brachyurus (Godfrey) Filip. & Sch. Stekh., lesion nematode, on (1): '119'.

P. pratensis (de Man) Filip., lesion nematode, on (1): '278'.

P. sp., on (1): '265'.

Puccinia cynodontis Lacroix ex Desm., rust, on (1): '278' and (2): '281'.

Pythium aphanidermatum (Edson) Fitzp., root rot, on (1): '281'.

Rhizoctonia (?*solani* Kuehn), root rot, on (1): '284'.

R. sp., on (1): '216'.

Sclerotinia homoeocarpa F.T. Bennett, dollar spot, on (1): '188'.

Scutellonema brachyurum (Steiner) Andrassy, nematode, on (1): '119'.

Septoria cynodontis Fckl., leafspot, on (1): '65'.

Trichodorus sp., stubby-root nematode, on (1): '119' and (2): '265'.

Tylenchorhynchus sp., stunt nematode, on (2): '265'.

CYNODON (cont'd)

Ustilago cynodontis P. Henn., smut, on (1): '279'.

Xiphinema sp., dagger nematode, on (2): '265'.

CYPERUS L

CYPERACEAE

(1) *C. gracilis* R.Br., McCoy grass

(2) *C. rotundus* L., nut grass

(3) *C. sp.*

Criconemoides sp., ring nematode, on (1): '119'.

Fusarium sp., on (2): '280'.

Helicotylenchus dihystra (Cobb) Sher, spiral nematode, on (1): '119'.

Meliola argentina Speg., on (3): '284'.

Meloidogyne sp., root-knot nematode, on (2): '278'.

Puccinia canalioulata (Schw.) Lagerh., rust, on (2): '280'.

Radopholus similis (Cobb) Thorne (= *Rotylenchus s.* (Cobb) Filip.),
burrowing nematode, on (1): '119' and (2): '197'.

Trichodorus sp., stubby-root nematode, on (1): '119'.

Xiphinema ensiculiferum (Cobb) Thorne, dagger nematode, on (1): '119'.

CYPERACEAE

Metasphaeria cumana Sacc. & Speg., on dead plants, '250'.

Trichothallus hawaiiensis Stevens, '250'.

CYPHOMANDRA Sendt.

SOLANACEAE

(1) *C. betacea* (Cav.) Sendtn., tree tomato

(2) *C. sp.*

CYPHOMANDRA (cont'd)

Meloidogyne arenaria (Neal) Chitwood, on (1): '281'.

Pseudomonas solanacearum E.F.Sm., southern bacterial wilt, on (2) : '225'.

CYRTANDRA J.R. & J.G.A. Forst.

GESNERIACEAE

(1) *C. cordifolis* Gaud., ha'iwale

(2) *C. lessoniana* Gaud.

Asteridiella cyrtandrae (Stev.) Hansf. (= *Irene c.* Stev.) on (1) and (2): '96', '250'.

DACTYLIS L.

GRAMINEAE

(1) *D. glomerata* L., orchard grass

Puccinia graminis Pers., rust, '281'.

DAHLIA Cav.

COMPOSITAE

(1) *D. pinnata* Cav., dahlia

(2) *D. ?variabilis* (Willd.) Desf.

(3) *D. sp.*

Aphelenchoides besseyi Christie, foliar nematode, on (2): '239'.

Meloidogyne incognita var. *acrita* Chitwood, root-knot nematode, on (2): '239'.

M. javanica (Traub) Chitwood, root-knot nematode, on (1): '119'.

M. sp., on (3): '181'.

Oidium sp., powdery mildew, on (2): '225' and (3): '250', '15'.

Phomopsis achilliae (Sacc.) Hoehn., on dead plants of (3): '250'.

DAHLIA (cont'd)

Mosaic virus on (2): '225'.

Spotted wilt virus on (2): '281'.

DATURA L.

SOLANACEAE

(1) *D. candida* (Pers.) Pasq., angel's trumpet

(2) *D. stramonium* L., jimson-weed

Meloidogyne sp., root-knot nematode, on (2): '284'.

Cucumber mosaic virus on (1): '225', and (2): '281'.

Mottle virus on (2): '213'.

DAUCUS L.

UMBELLIFERAE

(1) *D. carota* L. var. *sativa* DC., carrot

Alternaria dauci. (Kuehn) Groves & Skolko, leafspot, '212', '15'.

Erwinia carotovora sub.sp. *carotovora* (L.R. Jones) Bergey et al. , soft rot, '180'.

Meloidogyne arenaria (Neal) Chitwood, root-knot nematode, '119'.

M. sp., '216'.

Pratylenchus sp., pin nematode, '281'.

Rhizoctonia sp., root rot, '281'.

Rotylenchulus reniformis Linford & Oliveira, reniform nematode, '167'.

Sclerotium rolfsii Sacc., southern blight, '212'.

DAVALLIA Smith

DAVALLIACEAE

(1) *D. sp.*

Pratylenchus sp., lesion nematode, '281'.

DELPHINIUM L.

RANUNUCULACEAE

- (1) *D. sp.*, delphinium

Sclerotium rolfsii Sacc, southern blight, '215'.

DENDROBIUM O. Swartz

ORCHIDACEAE

- (1) *D. nobile* Lindl.

- (2) *D. stratiotes* Rchb.

- (3) *D. superbum* Rchb.f. (= *D. anosmum* Lindl.)

- (4) *D. sp.*

Alternaria alternata (Fr.) Keissler, *Bipolaris setariae* (Saw.) Shoem. , *B. urochloae* (Putterill) Shoem., *B. sorokiniana* (Sacc. in Sorok.) Shoem., *Botrytis cinerea* Pers. ex Fr., *Exserohilum rostratum* (Drechs.) Leonard & Suggs and *Stemphylium sp.* isolated from dark necrotic flecks on flowers of (4) incited upon artificial inoculation: '273'.

Bipolaris hawaiiensis (M.B. Ellis) Uchida & Aragaki, *Nigrospora sp.*, *Pestalotia sp.* and *Phyllostictina sp.* isolated from similar flecks on flowers of (4) failed to incite flecks on artificial inoculation: '273'.

Botrytis cinerea Pers. ex Fr., blossom blight, on (4): '12', '137', '281'.

B. sp. on (1): '12', '137'.

Erwinia chrysanthemi Burk., bacterial wilt, on (4): '100'.

Exserohilum rostratum (Drechs.) Leonard & Suggs, flower fleck, on (4): '124'.

Fusarium sp., on (4): '198'.

Gloeosporium sp., anthracnose, on (4): '281'.

Helicotylenchus sp., spiral nematode, on (4): '133'.

Paratylenchus sp., pin nematode, on (4): '164'.

Phytophthora palmivora Butl., black rot, on (4): '102'.

DENDROBIUM (cont'd)

Pseudomonas andropogonis (E.F.Sm.) Stapp, on (3) and (4): '100'.

Cymbidium mosaic virus on (1), (2), (3) and (4): '281'.

Mosaic virus on (3) and (4): '107'.

Odontoglossum ringspot virus on (3) and (4): '281'.

DESMODIUM Desv.

LEGUMINOSAE

(1) *D. canum* (Gmel.) Schinz & Thellung, ka'imi

(2) *D. tortuosum* (Sw.) DC., Florida beggarweed

(3) *D. uncinatum* (Jacq.) DC., Spanish clover

Cassytha filiformis L. , parasitic vine, on (1) and (3): '225'.

Helicotylenchus sp., spiral nematode, on (3): '281'.

Heterodera trifolii (Goffart) Oostenbrink, cyst nematode, on (1) and (3): '120'.

Meloidogyne sp., root-knot nematode, on (3): '281'.

Mosaic virus on (1): '214' and (3): '225'.

DIACATTLEYA Hort.

ORCHIDACEAE

(1) *D. sp.*

Cymbidium mosaic virus, '281'.

DIACRIUM (Lindl.) Benth.: see *Caularthron* (Orehidaceae)

DIANELLA Lam.

LILIACEAE

(1) *D. sandwichensis* Hook. & Arn. (as *D. odorata*) , Hawaiian dianella or ukiuki.

Colletotrichum dianellae Stev. & Young, on leaves, '250'.

DIANELLA (cont'd)

Meliola gregoriana Stevens, '96', '250'.

Mycosphaerella dianellae Stev. & Weedon, '250'.

Phaeosphaerella dianellae Stevens, '250'.

Pirostoma dianellae Stev. & Young, '250'.

Mosaic virus, '155'.

DIANTHUS L.

CARYOPHYLLACEAE

(1) *D. barbatus* L. sweet william

(2) *D. caryophyllus* L., carnation

(3) *D.* sp.

Alternaria dianthi Stev. & Hall, blight, on (1): '281'.

A. dianthicola Neergaard, flower blight, on (2): '281'.

A. sp., on (2): '113'.

Botrytis cinerea Pers. ex Fr., gray mold, on (2): '281'.

B. sp., on (2): '280'.

Criconemoides sp., ring nematode, on (2): '281'.

Fusarium oxysporum Shlecht. f. *dianthi* (Prill. & Delacr.) Snyder & Hans., wilt, on (2): '98'.

F. roseum Lk. Emend. Snyder & Hans., root rot, on (2): '8'. *L.* sp., on (2): '107'.

Heterodera trifolii (Goffart) Oostenbrink, cyst nematode, on (2): '120'.

Meloidogyne sp., root-knot nematode, on (2): '283'.

Microthyriella rubi Petrak, on (2): '225'.

Paratylenchus sp., pin nematode, on (2): '281'.

Pestalotia sp., on (3): '250'.

DIANTHUS (cont'd)

Phytophthora parasitica Dastur, root rot, on (2): '101'.

Pseudomonas caryophylli (Burkh.) Starr & Burkh., bacterial wilt, on (2): '8'.

P. woodsii (E.F.Sm.) Stevens, bacterial spot, on (2): '107'.

Puccinia arenariae (Schum.) Winter, rust, on (2): '281'.

Pythium sp., root rot, on (2): '281'.

Rhizoctonia (?*solani* Kuehn), root rot, on (2): '8'.

R. sp., root rot, on (1): '281', and (2): '107'.

Sclerotium rolfsii Sacc, southern blight, on (1): '281', and (2): '213'.

S. sp., on (2): '107'.

Septoria dianthi Desm., leafspot, on (2): '215'.

Tylenchorhynchus sp., stunt nematode, on (2): '281'.

Uromyces caryophyllinus (Schrank) Wint., rust, on (2): '250'.

DICHONDRA J.R. & J.G.A. Forst.

CONVOLVULACEAE

(1) *D. repens* J.R. & J.G.A. Forst., lawn leaf

(2) *D.* sp.

Alternaria alternata (Fr.) Keissler, leafspot, on (1): '281'.

Colletotrichum gloeosporioides (Penz.) Sacc., anthracnose, on (1): '281'.

Macrophomina phaseolina (Tassi) Goid. (*M. phaseoli* (Maubi.) Ashby, *Sclerotium bataticola* Taub.), charcoal rot, on (2): '281'.

Rhizoctonia sp., root rot, on (1): '281'.

Sclerotium rolfsii Sacc., southern blight, on (1): '281'.

DICHORISANDRA Mikan

COMMELINACEAE

- (1) *D. thyriflora* Mikan, blue ginger

Mosaic virus, '225'.

DICRANOPTERIS Bernh.

GLEICHENIACEAE

- (1) *D. linearis* (Burm.) Underw. , false staghorn fern

- (2) *D. sp.*

Dasyscypha ulei (Wint.) Sac, on (2): '250'.

Helminthosporium gleicheniae Stev. & Glick, on (1): '250'.

Helotium cremoneum Cash, on (2): '39'.

Lachnum gleicheniae Cash, on (2): '39'.

Leptothyrium gleicheniae Stev. & Young, on (2): '250'.

Phytophthora cinnamomi Rands, root rot, on (1): '146', '278'.

DIEFFENBACHIA Schott

ARACEAE

- (1) *D. ?amoena*

- (2) *D. oerstedii* Schott

- (3) *D. sp.*

Colletotrichum gloeosporioides (Penz.) Sacc., anthracnose, on (3) : '281'.

Pythium splendens Braun, root and stem rot, on (1): '281'.

Xanthomonas campestris pv. *dieffenbachiae* (McCull. & Pirone) Bows., bacterial leafspot, on (1): '281'.

Dasheen mosaic virus on (1) and (2): '281'.

DIGITALIS L.

SCROPHULARIACEAE

- (1) *D. purpurea* L., foxglove

Ramularia variabilis Fckl. leafspot, '225'.

DIGITARIA Heister ex Fabr.

GRAMINEAE

- (1) *D. decumbens* Stent, pangola grass
- (2) *D. ?henryi* Rendle
- (3) *D. pruriens* (Fisch. ex Trin.) Buse, crabgrass
- (4) *D. sanguinalis* (L.) Heister in Scop., large crabgrass
- (5) *D. violascens* Link
- (6) *D. sp.*

Curvularia lunata (Wakker) Boedijn, on (1): '281'.

Meloidogyne sp., root-knot nematode, on (4), (5), and (6): '278'.

Pratylenchus pratensis (de Man) Filip., lesion nematode, on (4): '278'.

Puccinia oahuensis Ell. & Ev., rust, on (1) and (2): '281', on (3): '250', and (5): '284'.

Pyricularia grisea (Cke.) Saco., leafspot, on (1): '280'.

Mosaic virus on (4) and (6): '284'.

DIOSCOREA L.

DIOSCOREACEAE

- (1) *D. alata* L., uhi

Gloeosporium sp., leaf blight, '281'.

DIOSPYROS L.

EBENACEAE

- (1) *D. hillebrandii* (Seem.) Fosb.
- (2) *D. kaki* L.f., oriental persimmon
- (3) *D. sandwicensis* (A.DC.) Fosb. (= *C. ferrea* (Willd.) Bukh. subgen. s. (A.DC.) Fosb.)

Asterina aspidii Theiss., on (3): '250'.

Asterinella mabae Stev. & Ryan, on (1) and (3): '250'.

DIOSPYROS (cont'd)

Colletotrichum sp., anthracnose, on (2): '280'.

Echidnodella mabae Stev. & Ryan, on (3): '250'.

Meliola sp., on (3): '250'.

DISSOTIS Benth. in Hook.

MELASTOMATACEAE

(1) *D. plumosa* Hook.f.

Meloidogyne sp., root-knot nematode, '281'.

DODONAEA Mill.

SAPINDACEAE

(1) *D. viscosa* (L.) Jacq. var. *arborescens* (Cunn. & Hook.) Sherff., aalii.

Campanella oucullata (Jungh.) Lloyd, '284'. *Meliola lyoni* Stevens, '96', '250'.

DOLICHOS L.

LEGUMINOSAE

(1) *D. lablab* L., hyacinth bean

Cercospora canescens Ell. & Martin, leaf and pod spot, '225'.

Cuscuta sandwichiana Choisy, dodder, '225'.

DORITAENOPSIS Guill. & Lami

ORCHIDACEAE

(1) *D. sp.*

Cymbidium mosaic virus, '281'.

DORITIS Lindl.

ORCHIDACEAE

(1) *D. sp.*

Cymbidium mosaic virus, '281'.

Odontoglossum ringspot virus, '281'.

DORSTENIA L.

MORACEAE

(1) *D. sp.*

Pseudomonas sp., bacterial leafspot, '281'.

DRACAENA Vand. ex L.

AGAVACEAE

(=*Pleomele* Salisb.)

(1) *D. aurea* H. Mann, halapapa

(2) *D. deremensis* Engler

(3) *D. draco* L., dragon tree

(4) *D. fragrans* L. var. *massangeana*

(5) *D. marginata* Lam.

(6) *D. sp.*

Coniothyrium dracaenae Stev. & Weedon, on (1): '250'.

Fusarium moniliforme Sheldon, leafspot, on (5): '281'.

Leptosphaeria dracaenae S. Camm. in D'Almeida, on (1): '250'.

Meliola dracaenae Stevens, on (1): '96', '250'.

Phyllosticta dracaenae Berk, on (3): '250'.

Pratylenchus sp., lesion nematode, on (6): '281'.

Pythium aphanidermatum (Edson) Fitzp., root rot, on (2): '281'.

P. sp., root rot, on (2): '281'.

Rhizoctonia sp., root rot, on (2): '281'.

Sphaerobolus stellatus Tode ex Fr., spore (glebal) mass of this nonparasitic fungus growing on mulch shot on, disfiguring the foliage of (4): '281'.

Trichodorus sp., stubby-root nematode, on (4): '281'.

DRYMARIA Willd. ex Schult.

CARYOPHYLLACEAE

- (1) *D. cordata* (L.) Willd. ex Roem. & Schult., drymaria Spotted wilt virus, '237'.

DUBAUTIA Gaud.

COMPOSITAE

- (1) *D. laxa* Hook. & Arn.

- (2) *D. sp.*

Echidnodella raillardiae Stev. & Ryan, on (2): '250'.

Graphium dubautiae Stev. & Weedon, on (1): '250'.

ECHEVERIA DC.

CRASSULACEAE

- (1) *E. sp.*

Meloidogyne sp., root-knot nematode, '281'.

Pythium aphanidermatum (Edson) Fitzp., root rot, '281'.

Rotylenchulus reniformis Linford & Oliveira, reniform nematode, '167'.

ECHINOCHLOA Beauv.

GRAMINEAE

- (1) *E. colon* (L.) Link, jungle rice

- (2) *E. crus-galli* (L.) Beauv., barnyard grass

Mosaic virus on (1) and (2) : '284'.

ECHINOPSIS Zucc.

CACTACEAE

- (1) *E. sp.*

Colletotrichum gloesporioides (Penz.) Sacc., anthracnose, '281'.

ELAEOCARPUS L.

TILIACEAE

- (1) *E. obtusa* (Willd.) Shult.
- (2) *E. palustris* (L.) Roem. & Schult.
- (3) *E. sp.*

Physoderma heleocharidis (Fckl.) Schroeter, on (1) and (2) '248'.

Pythium sp., root rot, on (3): '281'.

ELAPHOGLOSSUM Schott ex J.Sm.

- (1) *E. sp.*

Pestalotia sp., '250'.

Trichopeltis reptans Speg., '250'.

Trichothallus hawaiiensis Stevens, '250'.

ELEUSINE Gaertn.

GRAMINEAE

- (1) *E. indica* (L.) Gaertn., wiregrass

Helminthosporium sp., leafspot, '279'.

Meloidoryne sp., root-knot nematode, '278'.

Pratylenchus pratensis (de Man) Filip., lesion nematode, '278'.

Rotylenchulus reniformis Linford & Cliveira, reniform nematode, '167'.

Mosaic virus on (1) '284'.

EMILIA Cass.

COMPOSITAE

- (1) *E. coccinea* (Sims) Sweet, pualele
- (2) *E. javanica* (Burm.f.) C.B. Robins (incorrectly as *E. sagittata* (Vahl) DC.)
- (3) *E. sonchifolia* (L.) DC., Flora's paintbrush

EMILIA (cont'd)

Alternaria sonchi J.J. Davis in J.A. Elliott, leafspot, on (3): '281'.

Meloidogyne sp., root-knot nematode, on (1), (2) and (3): '278'.

Oidium sp., powdery mildew, on (3): '188'.

Paratylenchus brachyurus Steiner (as *P. minutus* Linford) , pin nematode, on (3): '168'.

Pratylenchus brachyurus (Godfrey) Filip. & Schuur. Stekh. , lesion nematode, on (3): '79'.

P. pratensis (de Man) Filip., lesion nematode, on (1), (2) and (3): '278'.

Rotylenchulus reniformis Linford & Oliveira, reniform nematode, on (3): '167'.

Sclerotium rolfsii Sacc., southern blight, on (3): '278'.

Mosaic virus on (3): '284', and (4): '278'.

Spotted wilt virus en (1) and (4): '237', on (2): '163', and (3): '278'.

EPICATTLEYA Hort.

ORCHIDACEAE

(1) *E.* sp.

Cymbidium mosaic virus, '281'.

EPIDENDRUM L.

ORCHIDACEAE

(1) *E. ciliare* L .

(2) *E.* sp.

Gloeosporium sp. , anthracnose, on (2) : '281'.

Helicotylenchus sp., spiral nematode, on (2): '133'.

Paratylenchus sp., pin nematode, on (2): '133'.

Phytophthora palmivora Butl., on (2): '101'.

EPIDENDRUM (cont'd)

Cymbidium mosaic virus on (1) and (2): '281'.

Odontoglossum ringspot virus on (1) and (2): '281'. Virus on (2): '199'.

EPIPHYLLUM Haw.

CACTACEAE

(1) *E. sp.*

Colletotrichum phyllocacti Ell. & Ev. (= *C. gloeosporioides* (Penz.) Sacc), anthracnose, '250', '279'.

ERAGROSTIS Wolf.

GRAMINEAE

(1) *E. tenella* L .

(2) *E. variabilis* (Gaud.) Hbd., emoloa, kalomalo *Cercospora clemensiae* Graff., on (1): '15'.

Phyllachora graminis (Pers.) Fckl., leafspot, on (2): '112'.

ERECHTITES Rafin.

COMPOSITAE

(1) *E. hieracifolia* (L.) Raf., fireweed

(2) *E. valerianifolia* (Wolf) DC.

(3) *E. sp.*

Aphelenchoides besseyi Christie, foliar nematode, on (1): '239'.

Meloidogyne sp., root-knot nematode, on (1) and (2): '278'.

Phyllosticta erechitis Stev. & Young, on (3): '250'.

Rotylenchulus reniformis Linford & Oliveira, reniform nematode, on (2): '167' - Spotted wilt virus on (2): '237'.

EREMOCHLOA Buese

GRAMINEAE

- (1) *E. ophiuroides* (Munro) Hack., centipede grass

Colletotrichum falcatum Went, leafspot, '281'.

Criconemoides sp., ring nematode, '281'.

Curvularia lunata (Wakker) Boedijn, leafspot, '281'.

Helicotylenchus sp., spiral nematode, '281'.

Pratylenchus sp., lesion nematode, '281'.

Pythium sp., root rot, '281'.

Rhizoctonia sp., root rot, '281'.

ERIGERON L.

COMPOSITAE

- (1) *E. ?albidus* (Willd.) Gray, horseweed

- (2) *E. canadensis* L., Canada fleabane

- (3) *E.* sp.

Meloidogyne sp., root-knot nematode, on (2): '278'.

Oidium sp., powdery mildew, on (3): '246'.

Rotylenchulus reniformis Linford & Oliveira, reniform nematode, on (1): '167'.

Spotted wilt virus en (2) : '237'.

ERIOBOTRYA Lindl.

ROSACEAE

- (1) *E. japonica* (Thunb.) Lindl., loquat

Botryosphaeria ribis Gross. Duggar var. *chromogena* Shear, N.E. Stev. & M.S.

Wilcox, '216'.

ERVATAMIA (DC.) Stapf

APOCYANACEAE

- (1) *E. divaricata* (L.) Burkill, grape gardenia

Pythium sp., root rot, '281'.

ERYTHRINA L.

LEGUMINOSAE

- (1) *E. sandwicensis* Degener, wili wili
- Oidium* sp., powdery mildew, '281'.
- Patellaria atrata* (Hedw.) Fr., on dead (1): '39'.
- Ramularia* sp., leafspot, '225'.
- Stagonospora erythrinae* Stev. & Young, on dead plants, '250'.

ESCHSCHOLZIA Cham.

PAPAVERACEAE

- (1) *E. californica* Cham., California poppy
- Paratylenchus elachistus* Steiner (as *P. minutus* Linford) , pin nematode, ' 168'.

EUCALYPTUS L'Herit.

MYRTACEAE

- (1) *E. baxteri* R.Br. ex Benth.
- (2) *E. calophylla* R.Br., Marri
- (3) *E. camaldulensis* Dehnh., River red gum
- (4) *E. citrodora* Hook, in Mitch., lemon-scented gum
- (5) *E. deglupta* B., Mindanao gum
- (6) *E. globulus* LaBill., blue gum
- (7) *E. grandis* W. Hill ex Maid. , flooded gum
- (8) *E. gravillea*
- (9) *E. marginata* Sm. jarrah
- (10) *E. obliqua* L'Herit., stringy bark
- (11) *E. pilularis* Sm., black butt
- (12) *E. punctata* DC. gray gum
- (13) *E. robusta* Sm., swamp mahogany
- (14) *E. saligna* Sm., Sydney blue gum

EUCALYPTUS (cont'd)

- (15) *E. sieberiana* F. Muell., mountain ash
- (16) *E. sideroxylon* A. Cunn. ex Benth., red ironbark
- (17) *E. tereticornis* Sm., forest red gum
- (18) *E. sp.*

Anungitea globosa Sutton & Hodges, on leaves of (6) and (14), cf. '257'.

Aseroe rubra LaBillardiere ex Fr., under (8) and on (18): '15'.

Aulographina eucalypti (Cke. & Masee) v. Arx & E. Mueller, leafspot, on (12) and (14): '282'.

Beltrania querna Harkn., on leaves of (3), (7) and (13): cf. '256'.

Beltraniella portoricensis (F.L. Stev.) Pirozynski & Patil, on leaves of (14): cf. '256'.

Botryosphaeria ribis Gross. & Duggar var. *chromogena* Shear, N.E. Stev. & M.S. Wilcox, on (18): '251'.

Calonectria crotalariae (Loos) Bell & Sobers, collar rot, on (14), also on (3), (4), (12), (13), (16) and (17): '203'.

Chaetopsina fulva Rambelli, on leaves of (14): cf. '256'.

C. nigra Sutton & Hodges, on leaves of (13): cf. '256'.

Chaetosphaeria dingleyae Hughes, Kendrick & Shoemaker, on leaves of (14) : cf. '256'.

Circinotrichum papakurae Hughes & Pirozynski, on leaves of (14) : cf. '256'.

Coccomyces martiniae Hansf., on leaves of (3), (6), (7), (13) and (14) : cf. '256'.

Codinaea parva Hughes & Kendrick, on leaves of (13): cf. '256'.

C. simplex Hughes & Kendrick, on leaves of (6), (13) and (14), cf. '256'.

EUCALYPTUS (cont'd)

Coniella castaneicola (Ell. & Ev.) Sutton, on leaves of (7), (13) and (14): cf. '256'.

Conoplea fusca Pers., on leaves of (6) and (13): cf. '256'.

Cryphonectria cubensis (Bruner) Hodges, on (5), (7) and (14): '115', '282'.

Cryptophiale kakombensis Pirozynski, on leaves of (14): cf. '256'.

C. udagawae Pirozynski, on leaves of (7), (13) and (14): cf. '256'.

Cylindrocladium theae Loos, on (13) and (14): '282'.

Diaporthe sp., on dead and dying branches of (18): '251'.

Discosia artocreas (Tode ex Fr.) Fr., on leaves of (14): cf. '256'.

Eriosporella calami (Niessl) Hoehn., on leaves of (7): cf. '256'.

Fairmaniella leprosa (Fairm.) Petrak & Sydow, on leaves of (3): cf. '256'.

Fomes australis Fr., on (18): '26'.

Gampsonema exile (Tassi) Nag Raj, on leaves of (14): cf. '256'.

Gyrothrix circinata (Berk. & Curt.) Hughes, on leaves of (14) cf. '256'.

Harknessia hawaiiensis Stev. & Young, on (13): '250'.

H. uromycoides (Speg.) Speg., on leaves of (6): cf. '256'.

H. ventricosa Sutton & Hodges, on leaves of (14): cf. '256'.

Lembosia eucalypti Stev. & Dixon, on (18): '250'.

Melanconium sp., on (18): '278'.

Microdochium caespitosum Sutton, Pirozynski & Deighton, on leaves of (5): of. '256'.

EUCALYPTUS (cont'd)

M. cylindricum Sutton & Hodges, on leaves of (3): cf. '256'.

M. falcatum Sutton & Hodges, on leaves of (6), (13) and (14): cf. '256'.

M. griseum Sutton, Pirozynski & Deighton, on leaves of '16', cf. '256'.

Mycoleptodiscus brasiliensis Sutton & Hodges, on leaves of (14), cf. '256'.

Mycotribulus mirabilis Nag Raj & Kendrick, on leaves of (7), (13) and (14): cf. '257'.

Oramasia hirsuta Urries, on leaves of (14): cf. '257'.

Pestalotia sp., on (6): '250'.

Phaeoseptoria eucalypti Hanf. Emend J. Walker, '282'.

Phialocephala truncata Sutton, on leaves of (13): cf. '257'.

Phytophthora cinnamomi Rands, decline, on (14): '225'; (4) and (13) moderately tolerant to infection, (1), (2), (9), (10), (11), (13) and (15) susceptible: '141'.

Pilidium acerinum Kze. , on leaves of (6), (13) and (14): cf. '257'.

Pisolithus tinctorius (Pers.) Coker & Couch, forms mycorrhizae on (18): '282'.

Polyporus vellereus Berk., on (6): '284'.

Polyscytalum truncatum Sutton & Hodges, on leaves of (7), (13) and (14): cf. '257'.

Pseudobeltrania chumrungensis Pirozynski., on leaves of (14): cf. '257' .

Pseudomicrodochium falcatum Sutton & Hodges, on leaves of (14): '282'.

Pythium sp., root rot, on (14): '281'.

Satchmopsis brasiliensis Sutton & Hodges, on leaves of (3) and (13): of. '257'.

EUCALYPTUS (cont'd)

Scolecobasidium echinophilum (Massal.) Sutton, on leaves of (13): cf. '257'.

Selenosporella verticillata Sutton & Hodges, on leaves of (18): cf. '257'.

Speiropsis pedatospora Tubaki, on leaves of (14): '282'.

Troposporella fumosa P. Karst. , on leaves of (3), (13) and (14): '282'.

Verticillium tenuissimum Cda., on leaves of (13): '282'.

Waydora typica (Rodway) Sutton, on leaves of (3) and (13): '282'.

Weisneriomyces javanicus Kooders, on leaves of (13) and (14): '282'.

Zygosporium gibbosum (Saoc., Rouss. & Bomm.) Hughes, on leaves of (14): '282'.

EUGENIA L.

MYRTACEAE

- (1) *E. aromatica* (L.) Baill. (=*E. caryophyllus* (Spreng.) Bullock & Harrison), clove tree
- (2) *E. cumine* (L.) Druce, Java plum
- (3) *E. malaccensis* L., mountain apple
- (4) *E. sandwicensis* Gray, ohii'a ha or ha
- (5) *E. sp*

Cassytha filiformis L., parasitic vine, on (2): '225'.

Cephaleurus virescens Kunze, parasitic alga, on (1): '188'.

Crepidotus alabamensis Murr., on (3): '15'.

Gloeosporium sp., on (3): '15'.

Meliola hawaiiensis Stevens, on (4): '96', '250'.

Mycosphaerella eugeniae Rehm, on (4) and (5): '250'.

EUGENIA (cont'd)

Pestalotia sp., on (3): '250'.

Rotylenchulus reniformis Linford & Oliveira, on (3): '167'.

EUPATORIUM L.

COMPOSITAE

(1) *E.* sp.

Davincia helios Penz. & Sacc., on dead (1): '39'.

Ditylenchus sp., stem and bulb nematode, '281'.

EUPHORBIA L.

EUPHORBIACEAE

(1) *E. antiquorum* L., Malayan spurge tree

(2) *E. celastroides* Buiss. in A. DC. var. *amplectans* Sherff.

(3) *E. clusiaefolia* Hook. & Arn.

(4) *E. geniculata* Ortega

(5) *E. hirta* L., garden spurge

(6) *E. hookeri* Steud .

(7) *E. hypericifolia* L., graceful spurge

(8) *E. multiformis* Hook. & Arn.

(9) *E. olowaluana* Sherff. var. *gracilis* (Rick) Scherff,

(10) *E. pulcherrima* Willd. , poinsettia

(11) *E. serpyllifolia* Pers.

(12) *E. thymifolia* L., thyme-leaved spurga

(13) *E.* sp.

Amazonia psychotriae (P. Fejnn.) Theiss., on (3): '250'.

A. tetrorchidii Hansf., on (3): '96'.

Botrytis cinerea Pers. ex Fr., on (10): '281'.

EUPHORBIA (cont'd)

Cassytha filiformis L. parasitic vine, on (7) and (10): '225'.

Meloidogyne sp., root-knot nematode, on (13): '284'.

Oidium sp., on (13): '250'.

Paratylenohus elachistus Steiner (as *P. minutus* Linford), pin nematode, on (4): '168'.

Phytophthora parasitica Dastur, root rot, on (10): '281'.

Puccinia levata Hennen & Hodges nom. nov., inedit. (= *P. velata* (Ell. & Ev.) Arth. nom. nud.), rust, on (2) and (9): '282'; on (6), (8) and (13): '108', '250'.

P. vitata Hennen & Hodges, n.sp. inedit., on (9): '282'.

Pythium sp., root rot, on (1) and (10): '281'.

Questiera euphorbiae G. Arnaud, on (3): '250'.

Rhizoctonia (solani) Kuehn, root rot, on (13): '223'.

R. sp., root rot, on (10): '281'.

Rotylenchulus reniformis Linford & Oliveira, reniform nematode, on (5), (6) and (10): '167'.

Sphaceloma poinsettiae Jenkins & Ruehl, spot anthracnose, on (10): '225'.

Uredo stevensii Arth. , rust, on (3) and (13): '250'.

Uromyces proeminens (DC.) Pass., rust, on (11): '250'.

FAGOPYRUM Mill.

POLYGONACEAE

(1) *F. esculentum* Moench., buckwheat

Paratylenchus elachistus Steiner (as *P. minutus* Linford), pin nematode, '168'.

FAGRAEA Thunb.

LOGANIACEAE

(1) *F. berteriana* A. Gray ex Benth. , pua-keniken

FAGRAEA (cont'd)

Meloidogyne sp., root-knot nematode, '281'.

FARFUGIUM Lindl.: see *Ligularia* (Compositae)

FICUS L.

MORACEAE

- (1) *F. benghalensis* L., banyan
- (2) *F. carica* L., fig
- (3) *F. elastica* Roxb. ex Hornem., Indian rubber tree
- (4) *F. pumila* L., creeping fig
- (5) *F. ramantacea* Roxb.
- (6) *F. retusa* L. (misdetermined for *F. microcarpa* L.f.), Chinese banyan
- (7) *F. robusta*
- (8) *F. tikoua* Bur. & Fr.

Capnodium sp., sooty mold, on (1): '279'.

Cercospora bolleana (Thuem.) Speg., leafspot, on (2): '29'.

Cylindrocladium scoparium Morg., leafspot, on (3): '281'.

Gloeosporium sp., leafspot, on (2): '9'.

Glomerella cingulata (Stonem.) Spauld. & v. Schrenk, anthracnose, on (7): '281'.

Meloidogyne incognita (Kofoid & White) Chit wood, root-knot nematode, on (5): '280', and on (8): '119'.

M. sp., on (3): '28'.

Phakopsora fici (Buti.) Buritica & Kennen (= *Physopella f.* Butler), rust, on (2): '281'.

Phytophthora palmivora Butler, root rot, on (2): '284'.

Rhizoctonia sp., root rot, on (6): '281'.

FICUS (cont'd)

Trametes corrugata Pers. ex Bres. , on (3): '26'.

T. personii Mont., on (3): '284'.

Fig mosaic virus on (2): '281'.

FILICIUM Thwaites ex J.D. Hooker

SAPINDACEAE

(1) *F. decipiens* (W. & A.) Thw., fern tree

Rhizoctonia sp., root rot, '281'.

FLINDERSIA R.Br.

RUTACEAE

(1) *F. brayleyana* F. Muell., silkwood

Calonectria sp., collar rot, '281'.

Phytophthora cinnamomi Rands, decline, a highly susceptible host: '111'.

Rhizoctonia sp., root rot, '282'; and cause of seedling blight, '149'.

FRAGARIA L.

ROSACEAE

(1) *F. chiloensis* Duchesne var. *ananasa* Bailey, strawberry

(2) *F.* sp.

Aphelenchoides besseyi Christie, on (1): '239'.

A. fragariae (Ritz.-Bos) Christie, foliar nematodes, on (1): '239'.

Botrytis ?cinerea Pers. ex Fr., fruit rot, on (1): '225'.

Cercospora ?fragariae Lobik, leafspot, on (1): '281'.

Meloidogyne hapla Chitwood, root-knot nematode, on (1): '281'.

Mycosphaerella fragariae (Tul.) Lindau, leafspot, on (2): '212'.

FRAGARIA (cont'd)

Oidium sp., powdery mildew, on (1): '281'.

Phytophthora parasitica Dastur, root rot, on (1): '280'.

Ramularia fragariae Pk., leafspot, on (1): '22b'.

R. tulasnei Sacc. (anamorph of *Mycosphaerella fragariae*, q.v.), leafspot, on (1): '250'.

Rhizoctonia sp., root rot, on (1): '280'.

FREYCINETIA Gaud.

PANDANACEAE

(1) *F. arborea* Gaud. , ie'ie.

(2) *F. arnottii* Gaud.

(3) *F. insularis*

(4) *F. sp.*

Clypeosphaeria stevensii Syd., on (2): '250'.

Eutypella sp., on (1): '279'.

Gibberella lagerheimii Rehm, on (1): '250'.

Melanomma clypeatum (Sacc. & Pav.) Berk., on (4): '250'.

Meliola juddiana Stevens, on (3): '15'.

M. sp., on (1): '90'.

Mollisia petiolorum Cash, on (4) : '39'.

Mycosphaerella freycinetiae Stevens, on (1): '250'.

Peltella freycinetiae Stev. & Ryan, on (1): '250'.

Phyllaohora freyoinetiae Stevens, on (1): '250', and (2): '15'.

Phytophthora cinnamomi Rands, root rot, on (1): '146'.

Seynesia atkinsonii Stev. & Ryan, on (1): '250'.

Trichothallus hawaiiensis Stevens, on (1): '250', and (2) '15'.

FUCHSIA L.

ONOGRACEAE

- (1) *F. hybrida* Hort. ex Vilm, fuchsia
Puccinastrum epi1obii Otth., rust, '72'.
Ured Fuchsiae Arthur & Holway, rust, '281'.

GAKNIA J.R. & J.G.A. Forster

CYPERACEAE

- (1) *G. gaudichaudii* S teud .
(2) *G . leptostachya* Boeck.
Meliola argentina Speg., on (1): '96'.
M. argentina Speg. var. *hawaiiensis* Hansf., on (2): '96'.
M. cyperi Pat. on (1) and (2): '250', but see above.

GALINSOGA Ruiz & Pav.

COMPOSITAE

- (1) *G. parviflora* Cav., galinsoga
Alternaria solani (Ell. & Martin) Jones & Grout, early blight, '281'.
Meloidogyne sp., root-knot nematode, '278'.
Rhizoctonia sp., root rot, '281'.
Spotted wilt virus on (1): '237'.

GARDENIA J. Ellis

RUBIACEAE

- (1) *G. iasminoides* Ellis, gardenia
(2) *G. sp.*
Botrytis cinerea Pers. ex Fr., petal blight, on (1): '281'.
Meloidogyne incognita (Kofoid & White) Chitwood, on (1): '126'.
Pythium sp., root rot, on (2): '281'.
Rhizoctonia sp., crown and root rot, on (2): '281'.

GARDENIA (cont'd)

Rotylenchulus reniformis Linford & Oliveira, reniform nematode, on (1): '281'.

GAZANIA Gaertn.

COMPOSITAE

(1) *G. rigens* (L.) Gaertn., gazania *Rhizoctonia* sp., root rot, '281'.

GERANIUM L.

GERANIACEAE

(1) *G. arboreum* Gray

(2) *G. carolinianum* L .

(3) *G. glabratum*

(4) *G. sp.*

Cylindrocladium sp., collar rot, on (4): '281'.

Puccinia callaquensis Neger, rust, on (3): '15'.

P. geranii-silvatici P. Karst. (= *P. leveillei* Mont.), rust, on (3): '250'.

P. leveillei Mont., on (1): '279'; and on (4): '281'.

GERBERA L.

COMPOSITAE

(1) *G. jamesonii* Bolus, Transvaal daisy

Alternaria gerberae, leafspot, '281'.

A. porri (Ellis) Cif., leafspot, '225'.

A. sp., leafspot, '218'.

Cercospora gerberae Chupp & Viegas, leafspot, '281'.

Oidium sp., powdery mildew, '225'.

Pythium sp., root rot, '281'.

GLADIOLUS L.

1HIDACEAE

- (1) *G. sp.* , gladiolus

Pseudomonas gladioli '281'.

Bean yellow mosaic virus, '281'.

Gladiolus mosaic virus, '281'.

GLEICHENIA J.E.Sm.

GLETCHENIACEAE

- (1) *G. dichotoma*

- (2) *G. emarginata*

- (3) *G. glauca*

- (4) *G. longissima*

- (5) *G. sp*

Dasyscypha ulei (Wint.) Sacc., on (3) and (5): '250'.

Helminthosporium gleicheniae Stev, & Glick, on (1): '250'.

Helotium cremoneum Cash, on stipes of (5): '39'.

Lachnum gleioheniae Cash (=*Dasyscypha g.* (Cash) Dennis), on stipes of (5): '39'.

Leptothyrium gleicheniae Stev, & Young, on living fronds of (4) : '250'.

Phytophthora cinnamomi Rands, on (2): '15'.

GLYCINE Willd. non L,

LEGUMINOSAE

- (1) *G. max* (L.) Merr.

Alternaria sp., leafspot, '181'.

Cercospora sojina Hara, leafspot, '281'.

Corynebacterium flaccumfaciens (Hedges) Dows., bacterial leafspot '281'.

Fusarium oxysporum Schlecht. f. *tracheiphilum* (E.F.Sm) Snyder wilt, '28'.

GLYCINE (cont'd)

Helicotylenchus sp., spiral nematode, '281'.

Meloidogyne sp., root-knot nematode, '278'.

Oidium sp., powdery mildew, '281'.

Pratylenchus brachyurus (Godfrey) Filip. & Schuur. Stekh., lesion nematode, '79'.

P. pratensis (de Man) Filip., lesion nematode, '79'.

Pseudomonas syringae pv. *glycinea* Coerper, bacterial leafspot, '181'.

P. solanacearum E.F.Sm., southern wilt, '181'.

P. viridiflava (Burkh.) Dowson, bacterial leafspot, '281'.

Rhizoctonia sp., root rot, '281'.

Rotylenchulus reniformis Linford & Oliveira, reniform nematode, '281'.

Sclerotium rolfsii Sacc, southern blight, '213'.

Xanthomonas campestris pv. *phaseoli* (E.F.Sm.) Dows., bacterial pustule, '281'.

Mosaic virus, '182'.

GNAPHALIUM L.

COMPOSITAE

(1) *G.* sp.

Meloidogyne sp., root-knot nematode, '284'.

GOMPHOCARPUS R.Br.

ASCLEPIADACEAE

(1) *G. physocarpus* E. Mey.

Meloidogyne sp., root-knot nematode, '278'.

GOMPHRENA L.

AMARANTHACEAE

(1) *G. globosa* L., globe amaranth

GOMPHRENA (cont'd)

Aleternaria gomphrenae Togashi, leafspot, '281'.

Helicotylenchus. sp., spiral nematode, '281'.

Rhizoctonia sp., root rot, '281'.

GOSSYPIUM L.

MALVACEAE

(1) *G. sp.*

Diaporthe sp., on dead and dying branches, '251'.

Glomerella gossypi Edg , '284'.

Phyalospora obtusa (Schw.) Cke., '251'.

Sphaeropsis malorum Peck., '251'.

GOULDIA Gray

RUBIACEAE

(1) *G. coriacea* Hook. & Arn. (=*G. terminalis* var. *c.* (H. & A.) Fosb.)

(2) *G. elongata* Heller, (=*G. terminalis* var. *e.* (Heller) Fosb.)

(3) *G. lanceolata* (= *G. terminalis* var. *lanceolata*)

(4) *G. terminalis* (Hook. & Arn.) Hbd. var. *macrocarpa* (Hbd.) Fosb.)

(5) *G. sp.*

Amazonia asterinoides (Wint.) Theiss., black mildew, on (5): '284'.

Armillaria mellea (Vahl. ex Fr.) Kummer, on (5): '159'.

Asterina gouldiae Stev. & Ryan, black leafspot, on (1): '250'.

Cercospora sp., leafspot, on (5): '284'.

Dendrophoma gouldiae Stev. & Plunkett, on leaves of (1): '250'.

GOULDIA (cont'd)

Enthallopycnidium gouldiae Stevens, on leaves of (5): '250'.

Meliola gouldiae Hansf., on (1): '96'.

M. kaduae Stevens, on (1): '250', on (3) and (4): . '96, and on (5): '96', '250'.

M. sandwicensis Ell. & Ev., on (1) and (5): '96', '250', on (2) and (4) : '250'.

M. sandwicensis Ell. & Ev. var. *gouldiae* Hansf., on (1), (2) and (3) : '96'.

M. sandwicensis Ell. & Ev. var. *major* Hansf., on (1), (3) and (5): '96'.

Mycosphaerella kaduae Stev. & Young, on leaves of (5): '250'.

Phytophthora cinnamomi Rands, decline, highly tolerant to, on (4): '141'.

Pluriporus gouldiae Stev. & Ryan, black leafspot, on (1): '250'.

Septoria gouldiae Stev. & Young, leafspot, on (3): '250'.

S. hawaiiensis Stev. & Plunkett, leafspot, on (5): '250'.

Trichopeltis reptans Speg., on leaves of (5): '284'.

GRAMINEAE

Crepidotus rhizomorphus Burt: '28'.

Xthryjahallus rubicundus (Bosc) Fischer (=*Phallus r.* Rose) '59'.

Scirrhia lophodermioides Ell. & Ev., on dead plants: '250'.

Trichopeltis reptans Speg.: '250'.

GRAMMATOPHYLLUM Blume

ORCHIDACEAE

(1) *G. sp.*

Erwinia chrysanthemi Burkh., McFadden & Dircoek, bacterial wilt, '100'.

GRAMMATOPHYLLUM (cont'd)

Cymbidium mosaic virus, '281'.

Virus, '199'.

GREVILLEA R.Br. ex Salisb.

PROTEACEAE

(1) *G. robusta* A. Cunn., silk oak

Asterina globifera Ell. & Ev., black leafspot, '284'.

Botryosphaeria ribis (Tode ex Fr.) Gross. & Duggar, on branches of (1): '284'.

GUNNERA L.

GUNNERACEAE

(1) *G. paniculata* Gaud., 'ape ape

Harknesia gunnerae Stev. & Young, leafspot, '250'.

Mycosphaerella hawaiiensis Stev. & Young, on living leaves, '250'.

GYPSOPHILA L.

CARYOPHYLLACEAE

(1) *G. paniculata* L., baby's breath

Alternaria sp., flower blight, '281'.

Fusarium oxysporum Schlecht., stem decay, '281'.

Pythium sp., root rot, '281'.

Rhizoctonia sp., root rot, '281'.

HABENARIA Willd.

ORCHIDACEAE

(1) *H. sp.*

Cymbidium mosaic virus, '281'.

HAEMANTHUS L.

AMARYLLIDACEAE

(1) *H. multiflorus* Martyn, blood lily

HAEMANTHUS (cont'd)

Spotted wilt virus, '281'.

HEBE Comm. ex Juss.

SCROPHULARIACEAE

(1) *H. speciosa* (R. Cunn. ex A. Cunn.) Cockayne & Alan.

Septoria exotica Speg., leafspot, '225'.

HEDERA L.

ARALIACEAE

(1) *H. helix* L., English ivy

(2) *H. sp.*

Pythium sp., root rot, on (2): '281'.

Rhizoctonia sp., root rot, on (2): '281'.

Xanthomonas campestris pv. *hederae* (Arnaud) Dows., bacterial leafspot, on (1): '281'.

Mosaic virus on (2): '281'.

HEDYCHIUM Koenig

ZINGIBERACEAE

(1) *H. coronarium* Koenig, white ginger

(2) *H. flavum* Roxb., yellow ginger

(3) *H. gardnerianum* Roscoe, kahili ginger

(4) *H. sp.*

Mycosphaerella hedychii Stev. & Young, on living leaves of (1): '250'.

Pseudomonas solanacearum E.F.Sm., bacterial wilt, on (4): '281'.

Pythium sp., root rot, on (3): '281'.

Radopholus similis (Cobb) Thorne, burrowing nematode, on (1): '281', and on (2): '119', '280'.

Rhizoctonia sp., root rot, on (1) and (3): '281'.

HEDYCHIUM (cont'd)

Rotylenchulus reniformis Linford & Oliveira, reniform nematode, on (1) : '167'.

HEDYOTIS L.: see *Kadua* (Rubiaceae)

HELIANTHUS L.

COMPOSITAE

(1) *H. annuus* L., sunflower

(2) *H. tuberosus* L., Jerusalem artichoke

Meloidogyne sp., root-knot nematode, on (2): '281'.

Oidium sp., powdery mildew, on (2): '281'.

Paratylenchus elachistus Steiner (as *P. minutus* Linford), pin nematode, on (1): '168'.

Pythium dimeron Sid. (= *P. rostratum* Butl.) on (1): '15'.

P. irregulare Buis., and *P. splendens* Braun, root rot, on (1): '243'.

Rhizoctonia sp., root rot, on (1): '281'.

Sclerotinia sclerotiorum (Lib.) de Bary, sclerotinia rot, on (1): '281'.

Tylenchorhynchus sp., stunt nematode, on (1): '281'.

HELICHRYSUM Mill. corr. Pers.

COMPOSITAE

(1) *H. bracteatum* Andr., strawflower

Meloidogyne sp., root-knot nematode, '281'.

HELICONIA L.

MUSACEAE

(1) *H. psittacorum* L.f., parrot heliconia

(2) *H.* sp.

Meloidogyne arenaria (Neal) Chitwood, root-knot nematodes, on (1): '281'.

HELICONIA (cont'd)

M. incognita (Kofoid & White) Chitwood, root-knot nematode, on (1): '281'.

Phyllosticta heliconiae Stev. & Young, leafspot, on (2): '250'.

Septoria sp., leafspot, on (1): '225'.

HELXINE Req.: see *Soleirolia* (Urticaceae).

HEMEROCALLIS L.

LILIACEAE

(1) *H. fulva* L., tawny daylily

(2) *H.* sp.

Ceratocystis paradoxa (de Seynes) Dade, on (1): '279', and (2): '33'.

Phomopsis achilleae (Sacc.) Hohn., on dead scapes of (2): '250'.

Phytophthora sp., root rot, on (1): '279', and (2): '33'.

Sclerotium rolfsii Sacc., southern blight, on (1): '279' and (2): '33'.

HEMIGRAPHIS Nees

ACANTHACEAE

(1) *H. colorata* (Bl.) Hall.f.

(2) *H.* sp.

Corynespora ?cassiicola (Berk. & Curt.) Wei, on (1): '281'.

Meloidogyne incognita (Kofoid & White) Chitwood, root-knot nematode, on (2), '281'.

M. sp., root-knot nematode, on (1): '281'.

Sclerotium rolfsii Sacc., southern blight, on (2): '281'.

HETEROCENTRUM Hook. & Arn.

MELASTOMATACEAE

- (1) *H. mexicanum* Hook. & Arn.

Cassytha filiformis L., parasitic vine, '225'.

HETEROPOGON Pers.

GRAMINEAE

- (1) *H. contortus* (L.) Beauv., tanglehead

Puccinia versicolor Diet. & Holw., rust, '250'.

Sphacelotheca monilifera (Ell. & Ev.) Clinton, smut, '28'.

Xiphinema americanum Cobb, dagger nematode, '125'.

HIBISCADELPHUS Rock

MALVACEAE

- (1) *H. hualalasiensis* Rock

Armillaria mellea (Vahl ex Fr.) Kummer, root rot, '159'.

HIBISCUS L.

MALVACEAE

- (1) *H. arnottianus* Gray
- (2) *H. brackenridgei* Gray, native yellow hibiscus
- (3) *H. esculentus* L., okra
- (4) *H. palustris* L., rose mallow
- (5) *H. rosa-sinensis* L., Chinese hibiscus
- (6) *H. sabdariffa* L., roselle
- (7) *H. syriacus* L., rose of Sharon
- (8) *H. tiliaceus* L., hau
- (9) *H. sp.*

Aphelenohoides besseyi Christie, foliar nematode, on (2): '225'.

Botryosphaeria ribis Gross. & Duggar, on branches of (4) '284'.

HIBISCUS (cont'd)

B. ribis var. *chromogena* Shear, N.E. Stev. & M.S. Wilcox, on branches of (6) and (7): '251', and (8) and (9): '15'.

Buellia halotropha J. & E. Kohlm., on dead wood of (9): '15'.

Campanella cucullata (Jungh.) Lloyd, on (9): '284'.

Cercospora malayensis Stev. & Solheim, leafspot, on (5): '225', and (9): '284'.

Crepidotus alabamensis Murr., on (8) and (9): '15'.

Diaporthe sp., on dead and dying branches of (6) and (8): '251'.

Diplodia hibiscina Cke. & Ell., on branches of (5): '279'.

D. natalensis Pole Evans, on (8): '251'.

D. theobromae (Pat.) Nowell, on (9): '284'.

Fusarium radicicola Wr., on (9): '15', but see

F. solani (Mart.) Appel & Hr. f. *radicicola* (Wr.) Snyder & Hans., on (6): '28'.

Galerina reflexa (Murr.) Sm. & Singer, on branches of (8): '15'.

Halosphaeria quadricornuta A. & J. Cribb, on dead branches of (8): '15'.

Hydronectria tethys J. & E. Kohlm., on wood and dead bark of (8): '15'.

Lignincola laevis Hoehk., on wood of submerged branches of (8): '15'.

Lulworthia sp., on bark of submerged dead branches of (8): '15'.

Meloidogyne sp., root-knot nematode, on (3) and (5): '281', on (7): '165', and (9): '29'.

Metasphaeria australiensis A. & J. Cribb, on wood of submerged branch of (8): '15'.

Microthyriella hibisci Stevens, on (9): '250'.

HIBISCUS (cont'd)

Mollisia petiolorum Cash, on (8): '39'.

Oidium sp., powdery mildew, on (3): '281'.

Paratylenchus elaschistus Steiner (as *P. minutus* Linford) , pin nematode, on (3): '168'.

Patellaria atrata (Hedw.) Fr., on stems of (8): '39'.

Phoma macularis Desm., on dead (6): '250'.

P. sp., on submerged branch of (8): '281'.

Physalospora fusca Stevens, on (9): '112'.

Phytophthora parasitica Dast., root rot, on (5): '57', and (9): '112' .

Pleuroflammula flammea (Murr.) Singer apud Singer & Smith, on (8): '15'.

Pythium sp., root rot, on (8): '281'.

Rotylenchulus reniformis Linford & Oliveira, reniform nematode, on (3): '167'.

Sclerotium rolfsii Sacc., southern blight, on (3): '281'.

Verticillium sp., ?wilt, on (3): '213'.

Xenosporium berkeleyi (Curt.) Pirozynski, on stems of (8): '93'.

Xylaria sp., on (9): '15'.

Hibiscus ringspot virus on (9): '198'.

Mosaic virus on (1) and (5): '107'.

HICRIOPTERIS Presl

GLEICHENIACEAE

(1) *H. pinnata* (G. Kunze) Ching

Dasyscypha ulei (Wint.) Sacc, '250'.

Leptothyrium gleicheniae Stev. & Young, '250'.

HIPPEASTRUM Herb.

AMARYLLIDACEAE

(1) *H. vittatum* (L'Herit.) Herb., Peruvian lily

(2) *H. sp.*

Cymbidium mosaic virus on (1): '281'.

Mosaic virus on (2): '155'.

HIPPOBROMA G. Don: see *Laurentia* (Carapanulaceae).

HOLCUS L.

GRAMINEAE

(1) *H. lanatus* L., velvet grass

Entyloma crastophilum Sacc., smut, '250'.

Puccinia coronata Cda., crown rust, '250'.

P. recondita Rob. ex Desm., leaf rust, '281'.

HORDEUM L.

GRAMINEAE

(1) *H. vulgare* L., cultivated barley

Drechslera teres (Sacc.) Shoem., net blotch, '281'.

Helicotylenchus dihystera (Cobb) Sher (= *Tylenchus spiralis* Cassidy), spiral nematode, '28'.

Meloidogyne sp., root-knot nematode, '278'.

Ustilago hordei (Pers.) Kellerm. & Swingle, covered smut, '250'.

HYDRANGEA L.

SAXIFRAGACEAE

(1) *H. macrophylla* (Thunb.) Ser., hydrangea

(2) *H. sp.*

Aphelenchoides besseyi Christie, foliar nematode, on (2): '239'.

Botrytis cinerea Pert, ex Fr., leaf blight, on (1): '281'.

HYDRANGEA (cont'd)

Oidium sp., powdery mildew, on (1): '281', and (2): '225'.

Rhizoctonia sp., crown and root rot, on (1): '281'.

HYDROCOTYLE L.

UMBELLIFERAE

(1) 1L. verticillata Thunberg, marsh pennywort

Puccinia hydrocotyles Cke., rust, '250'.

HYPOCHAERIS L.

COMPOSITAE

(1) *H. radicata* L., hairy cat's-ear

Ditylenchus dipsaci (Kuehn) Filip., stem and bulb nematode, '81'.

ILEX L.

AQUIFOLIACEAE

(1) *I. anomala* Hook. & Arn. f. *sandwicensis* (Endl.) Loes., kawa'ii

Asterinella humiriae (P. Henn.) Theiss., '250'.

Triscelophorus monosporus Ingold, on leaf litter, '89'.

IMPATIENS L.

BALSAMINACEAE

(1) *I. balsamina* L., garden balsam

(2) *I. sultani* Hook.f., sultan balsam

(3) *I.* sp.

Aphelenchoides besseyi Christie, foliar nematode, on (1): '239'.

A. fragariae (Ritz.-Bos) Christie, foliar nematode, on (1): '239'.

Cercospora fukushiana (Matsuura) Yamamoto, leafspot, on (1) '225'.

Meloidogyne hapla Chitwood, root-knot nematode, on (1): '119'.

IMPATIENS (cont'd)

M. incognita (Kofoid & White) Chitwood, root-knot nematodes, on (1): '119'.

M. sp., root-knot nematode, on (2): '281'.

Pythium sp., root rot, on (3): '281'.

Rhizoctonia sp., root rot, on (1): '281'.

Rotylenchulus reniformis Linford & Oliveira, reniform nematode, on (1): '167'.

Sclerotium rolfsii Sacc., southern blight, on (3): '281'.

INDIGOFERA L.

LEGUMINOSAE

(1) *I. suffruticosa* Mill., indigo

Meloidogyne sp., root-knot nematode, '278'.

Pratylenchus pratensis (de Man) Filip., lesion nematode, '278'.

Rotylenchus reniformis Linford & Oliveira, reniform nematode, '167'.

IPOMOEA L.

CONVOLVULACEAE

(1) *I. alba* L., moonflower

(2) *I. aquatica* Forsk., water morning-glory

(3) *I. batatas* (L.) Poir., sweet potato

(4) *I. congesta* R.Br., morning glory

(5) *I. pes-caprae* (L.) Roth (= *I. brasiliensis* (L.) Sweet), beach morning-glory

(6) *I. purpurea* (L.) Lamb., common morning-glory

Albugo ipomoeae-panduratae (Schw.) Swingle, white rust, on (2): '281', and (4): '250'.

Ceratocystis fimbriata Ell. & Halst., black rot, on (3): '181'.

IPOMOEA (cont'd)

Cercospora alabemensis Atk., leaf spot, on (5): '250'.

C. ipomoeae Winter, leafspot, on (5) and (6): '281'.

C. ?timorensis Cke., leafspot, on (2): '281'.

C. sp., leafspot, on (1): '225'.

Corynespora cassiicola (Berk. & Curt.) Wei, leafspot, on (5): '281'.

Cuscuta sandwichiana Choisy, dodder, on (5): '281'.

Diaporthe batatatis (Ell. & Halst.) Harter & Field, stem and root rot, on (3): '33'.

Diplodia tubericola (Ell. & Ev.) Taub., Java rot, on (3): '281'.

Elsinoe batatas (Saw.) Viegas & Jenkins, spot anthracnose, on (3): '188', '281'.

Fusarium solani (Mart.) Appel & Wr., root rot, on (3): '281'.

Macrophomina phaseolina (Tassi) Goid. (= *Sclerotium bataticola* Taub.), charcoal rot, on (3): '281'.

Meloidogyne sp., root-knot nematode, on (it): '278', and (5): '284'.

Monilochaetia infuscans Ell. & Halst. ex Harter, scurf, on (3) : '27'.

Phomopsis sp., on (5): '284'.

Pythium arrhenomanes Drechsl., rootlet rot, on (3): '244'.

P. artotrogus (Mont.) de Bary, on (3): '243'.

P. debaryanum Hesse, on (3): '243'.

P. irregulare Buis. , on (3): '243'.

P. rostratum Butl., on (3): '243'.

P. splendens Braun, on (3): '243'.

Radopholus similis (Cobb) Thorne (*Tylenchus sp.* Cobb) on (1) '80'.

IPOMOEA (cont'd)

Rhizoctonia sp., root rot, on (3): '281'.

Rhizopus stolonifer (Ehr. ex Fr.) Lind., soft rot, on (3): '250'.

R. sp., on (3): '27'.

Sclerotium rolfsii Sacc., southern blight, on (3): '213'.

Septoria bataticola Taub., leafspot, on (3): '27'.

Streptomyces ipomoeae (Pers. 4 Mart.) Waksm. & Henrici, soft rot, on (3): '182'.

IRIS L.

IRIDACEAE

(1) *I.* sp.

Ditylenchus destructor Thorne, stem and bulb nematode, '166'.

Heterosporium iridis (Fautr. & Roum.) Jacques (= *Cladosporium i.* (Fautr. & Roum.) de Vries), leafspot, '166'.

ISTOMA (R.Br.) Lndl.: see *Laurentia* (Campanulaceae).

IXORA L.

RUBIACEAE

(1) *I. coccinea* L.

Cercospora ixorae Solh. apud Stev. & Pierce, leafspot, '281'.

Helicotylenchus sp., spiral nematode, '281'.

Meloidogyne sp., root-knot nematode, '281'.

JACQUEMONTIA Choisy

CONVOLVULACEAE

(1) *J. sandwicensis* Gray

Stemphyllium botryosum Wallr., leafspot, '280'.

JASMINUM L.

OLEACEAE

- (1) *J. multiflorum* (Burm.f.) Ands, (syn.: *J. pubescens* (Retz.) Willd.), star jasmine
- (2) *J. sambae* (L.) Ait., Arabian jasmine
- (3) *J. sp.*

Colletotrichum sp., flower blight, on (2): '188'.

Fusarium sp., on (1): '280'.

Meloidogyne sp., root-knot nematode, on (1): '281'.

Phytophthora parasitica Dastur, root rot, on (1): '280'.

Pythium splendens Braun, root rot, on (3): '281'.

P. sp., root rot, on (2): '281'.

Rhizoctonia sp., root rot, on (2): '281'.

Rotylenhulus reniformis Linford & Oliveira, reniform nematode, on (2): '281'.

Sclerotium rolfsii Sacc., southern blight, on (1): '281'.

JUNIPERUS L.

CUPRESSACEAE

- (1) *J. chinensis* L., Chinese juniper
- (2) *J. chinensis* var. *pyramidalis* Rehder, blue juniper
- (3) *J. sp.*

Cercospora sequoiae Ell. & Ev. (= *C. thujina* Plakidas), needle spot, on (2) : '281'.

Criconemoides sp., ring nematode, on (1): '281'.

Helicotylenchus sp., spiral nematode, on (1) and (3): '281'.

KADUA Cham. & Schlecht.

RUBIACEAE

- (1) *K. glomerata* Hook. & Arn. (= *Hedyotis centranthoides* H. & A.) Steud

KADUA (cont'd)

- (2) *K. grandis* Gray (=*H. acuminata* (Cham. & Schlecht.) Steud. var. *acuminata* f. *grandis* (Gray) Fosb.)
- (3) *K. knudsenii* Hbd. (=*H. k.* (Hdb.) Fosb.)
- (4) *K. sp.*

Meliola kaduae Stevens, on (4): '96', '250'.

M. kauaiensis Stevens, on (3) and (4): '250'.

M. sandwicensis Ell. & Ev., on (3) and (4): '250'.

Meloidogyne sp., root-knot nematode, on (4): '278'.

Mycosphaerella kaduae Stev. & Young, on (2) and (4): '250'.

Polystomella kaduae Stev. & Ryan, on (1): '250'.

Septoria gouldiae Stev. & Young, on (2): '250'.

Trichopeltis reptans Speg., on (1): '250'.

KALANCHOE Adans.

CRASSULACEAE

- (1) *K. pinnata* (Lam.) Pers., air plant
- (2) *K. sp.*

Botryosphaeria ribis (Tode ex Fr.) Gross. & Duggar, on (1): '284'.

Cassytha filiformis L., parasitic vine, on (1): '225'.

Cuscuta sandwichiana Choisy, dodder, on (1): '225'.

Rotylenchulus reniformis Linford & Oliveira, reniform nematode, on (2): '167'.

KORTHALSELLA van Teigh.

LORANTHACEAE

- (1) *K. complanata* (van Teigh.) Engler (=*Viscum articulatum* sensu Hbd.), mistletoe
- (2) *K. latissima* (van Teigh.) Dancer

KORTHALSELLA (cont'd)

(3) *K. sp.*

Meliola visci Stevens, on (3): '250'.

Pleospora sp., on (2): '148'.

Teichospora obducens (Fr.) Fckl. on (1) on *Acacia koa*: '147'.

LABORDIA Gaud, in Freyc.

LOGANIACEAE

(1) *L. sp.*

Amazonia psychotriae (P. Henn.) Theiss., '250'.

A. psychotriae var. *labordiae* Hansf., '96'.

LACTUCA L.

COMPOSITAE

(1) *L. sativa* L., lettuce

(2) *L. sativa* L. var. *capitata* L., head lettuce

(3) *L. sativa* L. var. *longifolia* Lam., romaine

Alternaria sonchi J.J. Davis apud J.A. Elliott, leafspot, on (1) : '281'.

Botrytis cinerea Pers. ex Fr., crown and head rot, on (2): '281'.

B. sp., leaf blight, on (2): '280'.

Bremia lactucae Regel, downy mildew, on (2): '217'.

Cercospora longissima Sacc., leafspot, on (2) and (3): '225'.

C. sp., on (2): '213'.

Criconemoides sp., ring nematode, on (1): '281'.

Erwinia carotovora sub.sp. *carotovora* (L.R. Jones) Bergey, et al., stump rot, on (2): '50', '225'.

Hoplolaimus sp., nematode, on (2): '239'.

Meloidogyne hapla Chitwood, root-knot nematode, on (2): '239'.

LACTUCA (cont'd)

M. sp., on (2): '278'.

Oidium sp., powdery mildew, on (1): '188'.

Pseudomonas gladioli severini (Brown) (syn. *P. marginata*) Stevens, marginal leaf blight, on (2): '213'.

P. sp. (Brown) Holland, bacterial rot, on (2): '213'.

Pythium sp., root rot, on (2): '281'.

Rhizoctonia (solani) Kuehn, bottom rot, on (2): '213'.

R. sp., root rot, on (2): '281'.

Rotylenchulus reniformis Linford & Oliveira, reniform nematode, on (2): '167'.

Sclerotinia sclerotiorum (Lib.) de Bary, drop, on (2): '81'.

Septoria lactucae Pass., leafspot, on (1): '182', and (2): '212'.

Stemphylium sp., leafspot, on (2): '106'.

Xanthomonas campestris pv. *vitians* (Brown) Dowson, bacterial wilt, on (2): '281'.

Beet western yellows virus on (2): '53'.

Lettuce mosaic virus on (2): '281'.

Mosaic virus on (2): '213'.

Spotted wilt virus on (1): '190', and (2): '280'.

Turnip mosaic virus on (2): '281'.

Tipburn, physiological, on (2): '281'.

LAELIA Lindl.

ORCHIDACEAE

(1) *L. acuminata* Lindl.

(2) *L. anceps* Lindl.

(3) *L. purpurata* Lindl. & Paxt.

LAELIA (cont'd)

Cymbidium mosaic virus on (2) and (3): '281'.

Odontoglossum ringspot virus on (1): '281'.

LAELIOCATTEYA Rolfe

ORCHIDACEAE

(1) *L. sp.*

Phytophthora cactorum (Leb. & Cohn) Schroet., root rot, '281'.

Cymbidium mosaic virus, '281'.

Odontoglossum ringspot virus, '281'.

LAGENARIA Seringe

CUCURBITACEAE

(1) *L. siceraria* (Molina) Standl., bottle gourd

Colletotrichum ? coccodes (Wallr.) Hughes, anthracnose, '281'.

Oidium sp., powdery mildew, '281'.

LAGERSTROEMIA L.

LYTHRACEAE

(1) *L. indica* L., crape myrtle

Oidium sp., powdery mildew, '281'.

LAMPFRANTHUS N.E.Br.

AIZOACEAE

(1) *L. glomeratus* (L.) N.E.Br., 'akulikuli'

Rhizoctonia sp., root rot, '281'.

LANTANA L.

VERBENACEAE

(1) *L. camara* L., lantana

(2) *L. sp.*

Diaporthe sp., on dead and dying branches of (1): '251'.

Ithyphallus rubicundus (Bosc) Fischer (= *Phallus r.* Bosc), on (1): '70'.

LANTANA (cont'd)

Patellaria atrata (Hedw.) Fr., on (2): '39'.

Physalospora fusca Stevens, on (1): '251'.

Pratylenchus pratensis (de Man) Filip., lesion nematode, on (1): '278'.

Rhizoctonia sp., root rot, on (1): '281'.

Schizoxylon insigne (de Not.) Rehm, on stems of (2): '39'.

Scleroderris lantanae Cash, on dead branches of (1): '39'; identity unknown, but not a *Scleroderris*, fide J.W. Groves, Can. J. Bot. 43:1260. 1965.

LATHYRUS L.

LEGUMINOSAE

(1) *L. odoratus* L., sweet pea

(2) *L. tingitanus* L., Tangier pea

Ascochyta sp., stem spot, on (2): '280'.

Fusarium sp., stem and root rot, on (1): '215'.

Glomerella cingulata (Stonem.) Spauld. & v. Schrenk, anthracnose, on (1): '215'.

Heterodera trifolii (Goffart) Oostenbrink, cyst nematode, on (2): '120'.

Meloidogyne sp., root-knot nematode, on (2): '280'.

Mosaic virus on (1): '215'.

LAURENTIA Adans.

CAMPANULACEAE

(= *Hippobroma* G. Don, *Isotoma* (R.Br.) Lindl.)

(1) *L. longifolia* (L.) Endl.

Mosaic virus, '225'.

LAVANDULA L.

LABIATAE

- (1) *L. officinalis* Chaix, English lavender

Pythium aphanidermatum (Edson) Fitzp., root rot, '281'.

LEEAE van Royen ex L.

LEEACEAE

- (1) *L. coccinea* Planch., Hawaiian holly

Calonectria crotalariae (Loos) Bell & Sobers, collar rot, '281'.

Pythium aphanidermatum (Edson) Fitzp., root rot, '281'.

P. splendens Braun, root rot, '281'.

Rhizoctonia sp., root rot, '281'.

LEPIDIDIUM L.

CRUCIFERAE

- (1) *L. sp.*, "pepper grass"

Albugo candida (Pers. ex Leveille) Kuntze, white rust, '279'.

LEUCADENDRON R. Br.

PROTEACEAE

- (1) *L. argenteum* R.Br., silver tree

- (2) *L. discolor* Buck

- (3) *L. laeololum*

- (4) *L. uliginosum* R.Br.

Meloidogyne incognita (Kofoid & White) Chitwood, root-knot nematode; seedlings of (1), (2), (3) and (4) resistant: '51'.

LEUCAENA Benth.

LEGUMINOSAE

- (1) *L. leucocephala* (Lam.) de Wit., koa haole, lead tree

Botryosphaeria ribis Gross. & Duggar var. *chromoeena* Shear, N.E. Stev. & M.S. Wilcox, on branches, '251'.

LEUCAENA (cont'd)

Diaporthe sp., on dead and dying branches, '251'.

Physalospora obtusa (Schw.) Cke., on branches, '251'.

Phytophthora drechsleri Tucker, canker, '282'.

Sphaeropsis gouldiae Stev. & Plunkett, canker, '251'.

Tryblidiella rufula (Spreng.) Sacc., on dead (1): '39'.

LEUCOSPERMUM R.Br.

PROTEACEAE

(1) *L. cordifolium* (Knight) Fourcade, pincushion protea

(2) *L. cunifforme*

(3) *L. lineare* R.Br.

(4) *L. reflexum* Buck

(5) *L. totum* R.Br.

Botrytis cinerea Pers. ex Fr., flower blight, on (1): '49'.

Helicotylenchus sp., spiral nematode, on (1): '281'.

Meloidogyne incognita (Kofoed & White) Chitwood, root-knot nematode, on (1), (4), and (5); seedlings of (1), (2) and (3) proved susceptible to the nematode, '51'.

Phytophthora cinnamomi Rands, root rot, on (1): '146'.

Pythium sp., root rot, on (1): '281'.

Rhizoctonia sp., root rot, on (1): '281'.

LIGULARIA Cass., nom. cons.

COMPOSITAE

(1) *L. kaemperi* (DC.) Sieb. & Zucc, (*L. tussilaginea*

(Burm.f.) Makino, *Farfugium japonicum* (L.) Kitamura), farfugium

Cercospora sp., leafspot, '225'.

Criconema celetum Wu, nematode, '119'.

LIGULARIA (cont'd)

Pratylenohus coffeae (Zimmerman) Filip. & Schuur. Stekh., lesion nematode, '119'.

Rhizoctonia sp., root rot, '281'.

Sclerotium rolfsii Sacc., southern blight, '193', '281'.

Scutellonema brachyurum (Steiner) Andrassy, nematode, '119'.

Xiphinema ensiculiferum (Cobb) Thorne, dagger nematode, '119'.

LIGUSTRUM L.

OLEACEAE

(1) *L.* sp., privet

Helicotylenchus sp., spiral nematode, '281'.

Pythium sp., root rot, '281'.

LILIUM L.

LILIACEAE

(1) *L. longiflorum* Thunb., easter lily

Botrytis cinerea Pers. ex Fr., blossom blight, '281'.

Pratylenchus brachyurus (de Man) Filip., lesion nematode, '239'.

P. penetrans (Cobb) Filip. & Schuur. Stekh., lesion nematode, '281'.

Mosaic virus, '212'.

Necrotic fleck virus, '281'.

LIMONIUM Mill.

PLUMBAGINACEAE

(1) *L. sinuaturu* (L.) Mill., statice

(2) *L.* sp.

Botrytis cinerea Pers. ex Fr., blossom blight, on (2): '281'.

Cercospora ?insulana Sacc., leafspot, on (1): '281', and (2): '225'.

LIMONIUM (cont'd)

Rhizoctonia sp., root rot, on (1): '281'.

LIPPIA L.

VERBENACEAE

(1) *L. micromera* Schauer in A.DC., false thyme

Sclerotium rolfsii Sacc., southern blight, '281'.

LITCHI Sonnerat

SAPINDACEAE

(1) *L. chinensis* Sonn., litchi

Gloeosporium sp. , '27'.

Glomerella sp. , '28'.

Longidorus sp., needle nematode, '119', '280'.

Xiphinema americanum Cobb, dagger nematode, '119'.

LOBELIA L.

LOBELIACEAE

(1) *L. sp.*

Amazonia asterinoides (Wint.) Theiss., black mildew, '284'.

A. psychotriae (P. Henn.) Theiss., '250'.

Asterina fibriata Kalchbr. & Cke., '250'.

A. lobeliae Stev. & Ryan, black mildew, '250'.

Calothyriopeltis metrosideri Stev. & Ryan, black mildew, '250'.

Colletotrichum gloeosporioides (Penz.) Sacc., '284'.

Meliola lobeliae Stevens, '96'.

LOCHNERA Reichenb. ex Endl.: see *Catharanthus* (Apocynaceae)

LOLIUM L.

GRAMINEAE

- (1) *L. perenne* L., English ryegrass

Helminthosporium sp., leafspot, '281'.

Puccinia coronata Cda., crown rust, '280'.

LONICERA L.

CAPRIFOLIACEAE

- (1) *L.* sp., honeysuckle

Cercospora lonioerae Chupp, leafspot, '281'.

LOTUS L.

LEGUMINOSAE

- (1) *L. corniculatus* L., birds-foot trefoil

Rhizoctonia sp., root rot, '281'.

LUDWIGIA L.

ONOGRACEAE

(=*Jussiaea* L.)

- (1) *L. octivalvis* (Jacq.) Sw. (= *J. erecta* Deg. non L., *J. villosa* Lam.),
primrose willow

Guignardia jussiaeae Stevens, '250'.

LUFFA Mill.

CUCURBITACEAE

- (1) *L. acutangula* (L.) Roxb., dishcloth gourd

Meloidogyne sp., root-knot nematode, '281'.

LUPINUS L.

LEGUMINOSAE

- (1) *L. albus* L., white lupine

- (2) *L. angustifolius* L., European blue lupine

- (3) *L. hirsutus* L., blue lupine

- (4) *L.* sp.

LUPINUS (cont'd)

Fusarium sp.f on (3): '212', and (4): '284'.

Meloidogyne sp., root-knot nematode, on (1): '284', and (3): '212'.

Rhizoctonia sp., root rot, on (2): '281'.

Mosaic virus on (4): '284'.

LYCOPERSICON Mill.

SOLANACEAE

(1) *L. esculentum* Mill., tomato

Alternaria solani (Ell. & Martin) Jones & Grout, early blight, '181'.

A. tomato (Cke.) Brinkm., nailhead spot, '280'.

Cladosporium fulvum Cke., leaf mold, '281'.

Colletotrichum nigrum Ell. & Halst. (= *C. coccodes* (Wallr.) Hughes), anthracnose, '216'.

Corynebacterium michiganense (E.F.Sm) Jensen, bacterial canker, '281'.

Erwinia carotovora sub.sp. *carotovora* (L.R. Jones) Bergey, et al. hollow stem, '281'.

Fusarium oxysporum Sehlecht. f. *lycopersici* (Saec.) Snyder. & Hans., wilt, '213'.

F. sp., '218'.

Helicotylenchus sp., spiral nematode, '281'.

Heterodera trifolii (Goffart) Oostenbrink, cyst nematode, '120'.

Macrophomina phaseolina (Tassi) Goid. (*Sclerotium bataticola* Taub.), charcoal rot, '281'.

Meloidogyne arenaria (Neal) Chitwood, root-knot nematode, '119'.

M. incognita (Kofoid & White) Chitwood, '51'.

LYCOPERSICON (cont'd)

M. incognita var. *acrita* (Kofoed & White) Chitwood, '51'.

M. javanica (Treub) Chitwood, '119'.

M. sp. , '212'.

Phoma destructiva Plowr., fruit rot and leaf and stem blight, '206', '212'.

Phomopsis sp., '107'.

Phytophthora cinnamomi Rands, root rot, '146', '194'.

P. infestans (Mont.) de Bary, late blight, '27'.

P. palmivora Butl. and *P. parasitica* Dast., root rot, '194'.

Pratylenohus brachyurus (Godfrey) Filip. & Sehuur. Stekh., lesion nematode, '79'.

P. pratensis (de Man) Filip., lesion nematode, '79'.

Pseudomonas solanacearum E.F.Sm. , bacterial wilt, '176'; when grafted on *L.*

pimpinellifolium (Juel.) Mill., currant tomato, a successful crop was grown, '205'.

Pyrenochaeta ?terrestris (Hans.) Gorenz, Walker & Larson, root rot, '280'.

Pythium aphanidermatum (Edson) Fitzp., root rot, '280'.

Rhizoctonia (solani Kuehn), '280'.

Rotylenchulus reniformis Linford & Oliveira, reniform nematode, '167' .

Sclerotinia sclerotiorum (Lib.) de Bary, sclerotinia rot,'281'.

Sclerotium rolfsii Sace., southern blight, '213'. *Septoria lycopersici* Speg., leafspot, '27'.

Stemphylium solani Weber, gray leafspot, '182'.

Verticillium albo-atrum Reinke & Berth., verticillium wilt, '281'.

LYCOPERSICON (cont'd)

V. sp., '280'.

Xanthomonas campestris pv. *vesicatoria* (Doidge) Dows., bacterial spot, '280'.

Cucumber mosaic virus, '181'.

Mosaic virus, '212'.

Mottle virus, '213'

Potato virus Y, '281'.

Spotted wilt virus, '237'.

Tobacco mosaic virus, '281'.

LYCOPODIUM L.

LYCOPODIACEAE

(1) *L. sp.*, club moss

Phytophthora cinnamomi Rands, '146'.

MACADAMIA F. Muell.

PROTEACEAE

(1) *M. integrifolia* Maiden & Betche, macadamia

(2) *M. ternifolia* F. Muell. (syn.: *M. minor* F.M. Bailey)

Agrobacterium tumefaciens (E.F.Sm. & Towns.) Conn, crown gall, on (1): '225' .

Botrytis cinerea Pers. ex Fr., blossom blight, on (1): '231'.

Cephaleuros virescens Kunze, parasitic alga, on (1): '281'.

Ganoderma lucidum (Leyss. ex Fr.) Karst, wood rot, on (1): '281'.

Gloeosporium sp., anthracnose, on (1): '212', and (2): '15'.

Helicotylenchus dihystrera (Cobb) Sher, spiral nematode, on (1): '119'.

Kretzschmaria clavus (Fr.) Sacc., decline and root decay, on (1): '150'.

MACADAMIA (cont'd)

Paratylenchus sp., pin nematode, on (1): '119'.

Phytophthora capsici Leonian, raceme blight, on (1): '14', '154'.

P. cinnamomi Rands, trunk canker, on (1): '110'.

P. nicotianae de Haan var. *parasitica* (Dast.) Waterhouse, phytophthora blight, on (1): '128', '130'.

P. palmivora Butl., phytophthora blight, on (1): '14', '128'.

Pycnoporus ?sanguineus (L. ex Fr.) Karst. (= *Polyporus* s. L. ex-Fr.) wood rot, on (1): '281'.

Rhizoctonia sp., root rot, on (1): '281'.

Septobasidium pseudopedicellatum Burt, symbiotic with scale insects, on (1): '281'.

Xylaria sp., root rot, on (1): '281'.

MACARANGA Du Petit-Thouars

EUPHORBIACEAE

(1) *M. grandifolia* (Blanco) Merr., macaranga

Cassytha filiformis L., parasitic vine, on (1): '225'.

MACHAERINA Vahl

CYPERACEAE

(1) *M. angustifolia* (Gaud.) Koyama

(2) *M. mariscoides* (Gaud.) Kern

Helicoma machaerinae Goos, on living and dead leaves of (1): '93'.

Meliola argentina Speg., on (1): '94', on (1) and (2): '90'.

MACROPTILIUM (Benth.) Urban

LEGUMINOSAE

(1) *M. atropurpureum* (DC.) Urban

Oidium sp., powdery mildew, '281'.

MAGNOLIA L.

MAGNOLIACEAE

(1) *M. grandiflora* L., magnolia

Cephaleuros virescens Kunze, parasitic alga, '188'.

MALPIGHIA L.

MALPIGHIACEAE

(1) *M. glabra* L., Barbados cherry

Cercospora bunchosiae Chupp & Miller, leaf spot, '100'.

C. sp., '280'.

Meloidogyne incognita (Kofoed & White) Chitwood, root-knot nematode, '119'.

M. sp., '280'.

MALUS Mill.

ROSACEAE

(1) *M. sylvestris* L., apple

Armillaria mellea (Vahl ex Fr.) Kummer, root rot, '159'.

Botryosphaeria ribis Gross. & Duggar, black fruit-rot, '281'.

MALVA L.

MALVACEAE

(1) *M. parviflora* L., cheese weed

Macrophomia phaseolina (Tassi) Goid. (= *Sclerotium bataticola* Taub.), charcoal rot, '281'.

Puccinia malvacearum Bertero, rust, '281'.

MANGIFERA L.

ANACARDIACEAE

(1) *M. indica* L., mango

(2) *M. sp.*

Antennellina hawaiiensis Mendoza, on (1): '250'.

Botryosphaeria ribis (Tode ex Fr.) Gross. & Duggar, on branches of (2): '284'.

MANGIFERA (cont'd)

- B. ribis* var. *chromogena* Shear, N.E. Stev. & M.S. Wilcox, on (1): '251'.
Botrytis cinerea Pers. ex Fr., blossom blight, on (1): '281'.
Chaetothyrium mangiferae Mendoza, on (1): '250'.
Colletotrichum gloeosporioides (Penz.) Sacc, anthracnose, on (1) : '280'.
Criconemoides sp., ring nematode, on (1): '281'.
Dasyscypha longispora (Karst.) Dennis (syn. : *Erinella l.* Karst), on (1): '39'.
Diaporthe sp., on dead and dying branches of (1): '251'.
Gloeosporium sp., on (1): '171'.
Glomerella cingulata (Stonem.) Spauld. & v. Schrenk, anthracnose, on (1): '28'.
Hvpoxylon effusum Nits., on (1): '250'.
Orbilbia epipora (Nyl.) Karst., on log of (1): '39'.
Phaeosphaerella mangiferae Stev. & Weedon, leafspot, on (1): '250'.
Pratylenchus brachyurus (Godfrey) Filip. & Schuur. Stekh., lesion nematode, on (1): '119'.
Polyporus gilvus (Schw.) Fr., sapwood rot, on (1): '26'.
Trametes corrugata Pers. ex Bres, on dead wood of (1): '26'.
Xiphinema americanum Cobb, dagger nematode, on (1): '119'.

MANIHOT Mill.

EUPHORBIACEAE

- (1) *M. esculenta* Crantz, cassava
Cercospora caribaea Ciff., white leafspot, '28'.
C. sp., '212'.
Diplodia sp. , '182'.

MANIHOT (cont'd)

Gloeosporium sp. (= ? *G. manihotis* P. Henn.), withertip, '27'.

Oidium sp., powdery mildew, '281'.

Rhizopus sp., '182'.

MARANTA L.

MARANTACEAE

(1) *M. dichotoma* Poeppig ex Koern.

(2) *M. leuconeura* E. Horr. var. *massangeana* E. Morr.

(3) *M.* sp.

Meloidogyne sp., root-knot nematode, on (3): '281'.

Phyllostiota marantaceae P. Henn., on living leaves of (1): '251'.

Radopholus similis (Cobb) Thorne, burrowing nematode, on (2): '281'.

MEDICAGO L.

LEGUMINOSAE

(1) *M. hispida* Gaertn., toothed bur clover

(2) *M. lupulina* L., black medick

(3) *M. sativa* L., alfalfa

Ascochyta imperfecta Peck, leafspot and black stem, on (3): '281'.

Calonectria crotolaria Ooka & Uchida on (3): '220'.

Cercospora ?*zebrina* Pass., leafspot, on (3): '281'. *C.* sp., on (3) : '280'.

Colletotrichum gloeosporioides (Penz.) Sacc, anthracnose, on (3) : '280'.

C. truncatum (Schw.) Andrus & Moore (= *C. dematium* (Fr.) Grove f. *truncatum* (Schw.) v. Arx), on (3): '280'.

Cylindrocladium clavatum Ooka & Uchida on (3): '220'.

MEDICAGO (cont'd)

Fusarium sp., on (3): '99'.

Helicotylenchus sp., spiral nematode, on (3): '99'.

Meloidogyne incognita (Kofoed & White) Chitwood, root-knot
nematode, on (3): '119'.

M. sp., on (1): '278', and (3): '99'.

Oidium sp., powdery mildew, on (3): '281'.

Paratylenchus elaschistus Steiner (= *L. minutus* Linford) , pin nematode, on (3):
'168'.

Phyllosticta medicaginis (Fckl.) Sacc, leafspot, on (3): '216'.

Pratylenchus sp., lesion nematode, on (3): '99'.

Pseudopeziza medicaginis (Lib.) Sacc., leafspot, on (3):
'250'.

Rhizoctonia sp., root rot, on (3): '99'.

Sclerotium rolfsii Sacc, southern blight, on (3): '30'.

Stemphylium botryosum Wallr., leafspot, on (3): '280'.

Trichodorus christiei Allen, stubby-root nematode, on (3): '99' .

Uromyces striatus Schroet. (syn.: *L. medicaginis* Pass.), rust, on (2): '281', and
(3): '215', '250'.

Xiphinema sp., dagger nematode, on (3): '99'.

MELALEUCA L.

MYRTACEAE

(1) *M. leucadendra* (L.) L., paperbark

Meloidogyne sp., root-knot, nematode, '280'.

Pythium sp., root rot, '280'.

- MELASTOMA L. MELASTOMATACEAE
 (1) *M. malabathricum* L. , Malabar melastoma
Phytophthora cinnamomi Rands, root rot, '146'.
- MELIA L. MELIACEAE
 (1) *M. azedarach* L., Persian lilac
Phytophthora parasitica Dastur, root rot, '194'.
- MELILOTUS Mill. LEGUMINOSAE
 (1) *M. alba* Desf., white sweet clover
Cercospora sp. (=*C. ?zebrina* Pass.), leaf spot, '213'.
- MELINIS Beauv. GRAMINEAE
 (1) *M. minutiflora* Beauv., molasses grass
Bipolaris urochloae (Putterell) Shoem., leafspot, '273'.
Cuscuta sandwichiana Choisy, dodder, '225'.
Helminthosporium sp., '280', but see *Bipolaris*.
- MERREMIA Dennst. ex Er.dl. CONVOLVULACEAE
 (1) *M. tuberosa* (L.) Rendl. (=*Ipomoea t.* L.), wood rose
Rotylenchulus reniformis Linford & Oliveira, reniform nematode, '167'.
- MESSERSCHMIDIA Hebenstr., 1763 BORAGINACEAE
 (= *Argusia* Boehm., 1760)
 (1) *M. argentea* (L.f.) Johnston, tree heliotrope
Rhizoctonia sp., root rot, '280'.

METROSIDEROS Banks ex Gaertn.

MYRTACEAE

- (1) *M. collina* (J.P. & J.G.A. Forst. subsp. *polymorpha*
- (2) (Gaud.) Rock, 'ohi'a lehua
- (3) *M. macropus* Hook & Am
- (4) *M. sp.* (= *M. ?macropus*)
- (5) *M. sp.*

Armillaria mellea (Vahl ex Fr.) Kummer, root rot, on (1): '225'.

Asteridiella ohiana (Stev.) Hansf. (= *Amazonia o. Stevens*), black mildew, on (1): '96', '250'.

Asterina rickii Theiss., black leaf patch, on (4): '250'.

Calonectria theae Alfieri *et. al.* (anamorph:

Cylindrocladium theae Loos), shoot blight, on (1): '204'.

Calothyriopeltis metrosideri Stev. & Ryan, on (4): '250'.

Cylindrocephalum sp., on leaf of (1): '15'.

Cylindrosporium sp., on leaf of (1): '15'.

Cuscuta sandwichiana Choisy, dodder, on (1): '225'.

Dasysoypha citrino-alba (Penz. & Sacc.) Cash, on cut wood of (1): '39'.

Diatrype princeps Penz. & Sacc, on (1): '250'.

Dinemasporium sp., on leaves of (1): '15'.

Diplodina sp., on leaves of (1): '15'.

Fungi identified at least to genus recorded from "the leaf surfaces of *Acacia koa* Gray var. *hawaiiensis* Rock, or *koa* (A), *Cheiropendrum trigynum* (Gaud.) Heller var. *trigynum*, or 'olapa (C), and *Metrosideros collina* (Forst.) Gray var. *polymorpha* (Gaud.) Rock, or 'oi'a lehua (M)," or from the air at the sites (+).

Acremonium curvulum W. Gams (M), *A. strictum* Gams (A,M,+), *A. sp.* (A,C,M),

METROSIDEROS (cont'd)

Acrostaphulus sp. (C),
Alternaria alternata (Fr.) Keissler (A,M),
Alyridium sp. (+),
Arthrinium sporophleum Kze. (M),
Aspergillus niger van Teigh. (C), *A. panamensis* Raper & Thorn (M,+), *A. terreus* Thorn (+), *A. ustus* (Bain.) Thorn & Church (M) ,
Asteromella sp. (M),
Aureobasidium pullulans (de Bary) Arnaud (A,C,M,+).

Beauveria sp. (M),
Bipolaris sorokiniana (Sacc. in Sorok.) Shoem. (+),
Botryodiplodia sp. (M),
Botrytis sp. (M).

Caloarisporium sp. (M),
Capnodiaceae (M),
Cercospora sp. (C,M,+),
Chaetomium globosum Kze. ex Fr. (M),
Chaetophoma sp. (M) ,
Chalara sp. (A,C,M,+),
Cladosporium oladosporioides (Fres.) de Vries (A,C,M,+) *C. elatum* (Harz) Nannf. (+), *C. oxysporum* Berk. 4 Curt. (+), *C. sp* (C,M), *C. state of Venturia carpophils* E.E. Fisher, see *Fusioladium carpophilum*,
Coniochaeta sp. (C,M),
Coniothyrium sp. (M),
Coremiella sp. (M),

METROSIDEROS (cont'd)

Curvularia lunata (Wakker) Boedijn (+),

Cylindrocarpon sp. (A,M).

Cylindrocladium sp. (A).

Dendryphiella salina (Southerl.) Pugh & Nicot (+),

Dinemasporium sp. (M), *Diplodia* sp. (M),

Drechslera australiensis (Bugnicourt) Subram. & Jain ex M.B. Ellis (A,+), *D. biseptata* (Sacc. & Roum.) Richardson & Fraser (M,+), *D. state of Pyrenophora avenae* Ito & Kurib. (A), *D. state of Cochliobolus sativus* (Ito & Kurib.) Drechsl. ex Dastur, see *Bipolaris sorokiniana*. *D. sp.* (A,M,+).

Epicoccum purpurascens Ehrenb. ex Schlecht. (A,M).

Fusarium episphaeria Snyder & Hans. (M), *F. lateritium* Nees (A,M), *F. merismoides* Cda. (A,+), *F. nivale* (Fr.) Cesati (M), *F. roseum* Link em. Snyder & Hans. (C,M), *F. solani* (Mart.) Sacc. (+), *F. sp.* (M),

Fusicladium carpophilum (Theum.) Oud. (A,C,M,+),

Fusidium sp., (M,+).

Geotrichum sp. (C),

Gilbertella sp. (?M) ,

Gilmaniella sp. (M),

Gloeosporium sp. (M),

Gliocladium deliquescens Sopp (M), *G. roseum* Lk. (A,M), *G. sp.* (A) ,

Gliomastix murorum (Cda.) Hughes var. *felina* (Marchal) Hughes (M) ,

Hansfordia grejjae (Hansf.) Hughes (A), *H. sp.* (A,+),

METROSIDEROS (cont'd)

Humicola fuscoatra Traaen (M).

?*Kordyana* sp. (A)

Leptosphaeria sp. (M)

Malbranchea sp. (M,+),

Marssonina sp. (M),

Melanconium sp. (C,M),

Meliola koae Stevens (A),

Metarrhizium sp. (A,M),

Monilia s p. (M,+),

Monochaetia sp. (A,M)

Monocillium sp. (C,M)

Monodictys glauca (Cke. & Harkn.) Hughes (M),

Mortierella isabellina Oud. & Konig. (M), *M.* sp. (M),

Mucor sp. (C),

Mycosphaerella metrodiseri Stev. & Young (A,M).

Nectrla sp. (A,C),

Nigrospora oryzae (Berk. & Br.) Petch (anamorph of *Khuksia o.* Hudson) (A,M).

N. sphaerica (Sacc.) Mason (A), *Nk.* sp. (M),

Nodulisporium gregarium (Berk. & Curt.) Meyer (C,M),

Oidiodendron sp. (C,M),

Paecilomyces sp. (A,M,C),

Papulaspora s p. (A),

METROSIDEROS (cont'd)

Penicillium canescens Sopp (A,C,M,+), *P. caseicola* Bain. (M), *P. citreo-viride* Biourge (M), *P. citrinum* Sopp (M), *P. cyaneium* (Bain & Sartory) Biourge (M), *P. diversum* Raper & Thorn (M), *P. frequentans* Westling (A,C,M), *P. funiculosum* Thom (M), *P. herquei* Bain. & Sart. (M), *P. janthinellum* Biourge (A,M,+), *P. lilacinum* Thom (+), *P. miczynskii* Zaleski (M,+), *P. nigricans* (Bain.) Thom (+), *P. piscarium* Westling (M), *P. raistrickii* Smith (A), *P. simplicissimum* (Oud.) Thom (C,+), *P. spinulosum* Thom (M), *P. steckii* Zaleski (M), *P. sp.* (A,C,M,+),

Periconia byssoides Pers. ex Merat (A,C), *P. echinochloae* (Batista) M.B. Ellis (+), *P. sp.* (M, +),

Periconiella angusiana M.B. Ellis (A,M),

Pestalotia stevensonii Peck (A,M), *P. sp.* (A,C,M,+),

Phialophora sp. (M),

Phyllosticta sp. (A,M),

Pericauda sp. (M),

Pithomyces atro-olivaceus (Cke. & Harkn.) M.B. Ellis (A,+), *P. chartarum* (Berk. & Curt.) M.B. Ellis (M), *P. cynodontis* M.B. Ellis (+),

Pleospora herbarum (Pers. ex Fr.) Rabenh. (A,+),

Pyricularia sp. (M).

Rhinocledialla state of *Dictyostrichella masonii* Schol-Schwarz

= *R. masonii* (Cast.) Schol-Schwarz (M), *R. cellaris* (Pers. ex S.F. Gray) M.B. Ellis (C,M), *R. sp.* (A,C,M),

Rhodotorula sp. (A,M).

Schizophyllum sp. (M),

Schizotrichella sp. (A),

Sclerotium rolfsii Sacc. (+),

METROSIDEROS (cont'd)

Scoleobasidium constrictum Abbott (+), *S. humicola* Barron & Busch (A,M), *S. terreum* Abbott (C), *S. variabile* Barron & Busch (A),
Scopulariopsis sp. (A,C) ,
Spegazzinia tessartha (Berk. & Curt.) Sacc. (+),
Sphaceloma sp. (M),
Sphaeropsidales, 9 picnidial types (A,C,M,+)
Sphaeropsis sp. (C,M),
Sporodesmium sp. (M),
Sporonema sp. (M) ,
Stagonospora sp. (M),
Stemphylium state of *Pleospora herbarum* (Pers. ex Fr.) Rabenh =
S. botryosum Wallr. (A, +), *S. sp.* (M),
Sympodiella sp. (M).

Theromyces lanuginosus Tsikylinsky (M),
Thielaviopsis sp. (M),
Torula sp. (M) ,
Trametes sp. (M) ,
Trichoderma viride Pers. ex Fr. (A,C,M,-+),
Trichopeltis reptans Speg. (C),
Tritirachium sp . (A,C,M,+).

Verticillium lateritium Berk. (+) , *V. sp.* (M) ,
Volutella sp. (A) ,

Zygosporium gibbum (Sacc, Roum. & Bomm.) Hughes (A,M): '14'.

METROSIDEROS (cont'd)

Fungi isolated from soil of the A zone -- For those fungi collected during the preliminary study in 1972 on the Mauna Loa Transect, the tree species under which each fungus was collected is indicated: *Acacia* (A), and *Metrosideros* (M); for additional species isolated from the soil in 1973, the tree species are not indicated. Fungi not reported previously from Hawaii are indicated by an asterisk (*).

**Absidia glauca* Hagem, *A. spinosa* Lendner (A,M),

**Anixiopsis* sp. (M),

**Aphanocladium* sp.,

Aspergillus flavum Link, *A. sydowii* (Bain. & Sart.) Thorn & Church,

Aureobasidium pullulans (de Bary) Arnaud.

Cephalosporium acremonium Cda. (A,M), *C. curtipes* Sacc.,

**Chaetomium fusisporale* Rae & Murkejee,

Calaropsis sp. (M) ,

Chloridium chlamydosporum (van Beyma) Hughes (A),

Cladosporium cladosporioides (Fres.) de Vries, *C. oxyosporum* Berk. & Curt.,

Colletotrichum sp. ,

Coniothyrium sp. (M) ,

**Cordana pauciseptata* Preuss (A),

**Curvularia harveyi* Shipton, **C. verruculosa* Tendon & Belgrami ex M.B. Ellis,

Cylindrocarpon candidum (Link) Wr. (M), **C. destructans* (Zinss.) Scholten (A),

C. didymum (Hartig) Wr., **C. ianothothtle* Wr. var. *majus* Wr. (M), *C. lucidum* C. Booth (A,M), **C. magnusianum* Wr. , **C. obtusisporum* (Cke. & Harkn)

Wr. (A).

METROSIDEROS (cont'd)

**Duratomyces miorosporum* (Sacc.) Morton & Smith,
**Fusarium lateitium* Nees, **F. oxysporum* Schlecht.,
**F. rigidiusculum* em. Snyder & Hans., *F. solani* (Mart.) Sacc
Gliocladium catenulatum Gilm. & Abbott, *G. deliquescens* Sopp
(A,M), *G. roseum* (Link) Thorn (A,M), *G. vermoeseni* (Biourge) Thorn (M),
Gliomastix murorum (Cda.) Hughes car. *fel.ina* (Marchal) Hughes
Humicola fuscoatra Traaen (A,M).
**Isaria* sp. (as *Penicillium clavigerumi* Demelius)
**Mammaria echinobotyoides* Ces. ,
**Mortierella hygrophila* Linnem. var. *minuta* Linnem., *M. isabellina* (Oud.)
Zycha (M), *M. ramanniana* (Moeller) Linnem. (A,M),
Mucor fragilis Bain., *M. globosus* Fischer (A,M), *M. hiemalis* Wehmer, **M.*
jansseni Lendner, **M. lausannensis* Lendner, **M. strictus* Hagem,
Myriotheций verrucaria (Alt. & Schw.) Ditm. ex Fr.
**Paecilomyces carnjus* (Duche & Heim.) Brown & G. Sm. (A,M),
Papulaspora irregularis Hotson,
**Penicillium atromentosum* Thorn, **P. aurantio-candidum* Dierckx,
**P. aurantio-virens* Biourge, *P. chermesinum* Biourge,
P. citrinum Thorn, *P. commune* Thorn, *P. corylophilum* Dierckx,
P. diversum Raper & Fennell (A), *P. frequentans* Wentling,
P. funioulosum Thorn, **P. implacatum* Biourge, *P. janthinellum*
Biourge (A,M), **P. kapuscinskii* Zaleski, *P. lanosum* Westling
(A), *P. lilacinum* Thorn, *P. nigricans* Bain. (A,M),
P. ochro-chloron Biourge, **P. psittacinum* Thorn, *P. rubrum*
Stoll, *P. rugulosum* Thorn (A,M), *P. variabile* Sopp (A,M),
P. verruculosum Peyronel,

METEOSIDEROS (cont'd)

**Pestalotia planimi* Vize,

Phialophora sp.,

Pyrenochaeta decipiens Marchal (A,M),

Pythium irregulare Buis. em. Vaartaja.

**Rhizopus microsporum* van Teigh.

**Sphaerosporium* sp. (M),

Spicaria violaoea Abbott (= *Paecilomyces marquandii* (Masse) Hughes) (A,M),

Staphylotrichum coccosporum Meyer & Nicot,

Stilbella bulbicola P. Henn, (A).

Torula herbarum (Pers.) Link ex S.F. Gray,

**Tricocladium opacum* (Corda) Hughes,

Trichoderma viride Pers. (A,M).

Verticillium cephalosporum Gams, **V. chlamydosporum* Goddard, *V. lateritium* Berk., *V. lecanii* (Zimm.) Veigas: '224'.

Hypoxylon globosum (Fr.) Rehm, on (1): '15'.

Korthalsella cylindrica, mistletoe, on (1): '281'.

Melanconium iliau Lyon, on (1): '15'.

Meliola sp., sooty mold, on (1): '281'.

Meliolina haplochaeta Syd., black mildew, on (1): '96', '250'.

M. mollis (Berk. & Br.) Hoehn. and *M. novae-zealandii* Hansf. on (1): '96'.

METROSIDEROS (cont'd)

M. sydowiana Stevens, on (1): '96', '250', on (2): '96', and (3): '250'.

Metasphaeria hawaiiensis Stev. & Young, leafspot, on (1): '250'.

Mycosphaerella metrosideri Stev. & Young, leafspot, on (1): '250'.

Neurospora sp., on (1): '15'.

Nummularia mauritanica Berk. & Cke., on (1): '239'.

Penicillium capsulatum Raper & Fennell, on leaf of (1): '15'.

Penzigia globosa (Fr.) Rehm, on (4): '250'.

Perisporium vulgare Cda., on leaf of (1) : '15'.

Phellinus inermis, heart rot, on (1): '281'.

Phoma glomerata (Cda.) Wr. & Hochapfel, on leaf of (1): '281'.

Phoma sp., on leaves of (1): '281'.

Phytophthora cinnamomi Rands, root rot, (1) highly susceptible: '141'; also see '145', '146'.

Polyporus arcularius Batsch ex Fr., wood rot, on (4): '26'.

Pythium vexans de Bary, root rot, less destructive than *Phytophthora cinnamomi* to (1): '144'.

Stachybotrys atra Cda., on leaf of (1): '15'.

Trametes malicola Berk. & Curt., on (4): '284'.

Trichopeltis reptans Speg., on (1): '250'.

Trichothallus hawaiiensis Stevens, on (1): '250'.

Xenolophium leve Syd., n.sp., on (1): '250'.

X. verrucosum Syd., n.sp., on (1): '250'.

Xiphinema americanum Cobb, dagger nematode, on (1): '119'.

| | |
|---|------------------|
| MICROLEPIA Presl | DENNSTAEDTIACEAE |
| (1) <i>M. sp.</i> | |
| <i>Ramularia microlepieae</i> Stevens, frond spot, '250'. | |
| MICROSORUM Link | POLYPODIACEAE |
| (1) <i>M. punctatum</i> (L.) Copel, crested fern | |
| <i>Rhizoctonia sp.</i> , root rot, '281'. | |
| MILTASSIA Hort. | ORCHIDACEAE |
| (1) <i>M. sp.</i> | |
| Cymbidium mosaic virus, '281'. | |
| MILTONIA Lindl. | ORCHIDACEAE |
| (1) <i>M. warscewiczii</i> Rchbr. f. | |
| (2) <i>M. sp.</i> | |
| Cymbidium mosaic virus on (1): '281'. | |
| Diamond spot virus on (2): '198'. | |
| MILTONIDIUM Hort. | ORCHIDACEAE |
| (1) <i>M. lustre</i> | |
| (2) <i>M. sp.</i> | |
| Cymbidium mosaic virus on (2): '281'. | |
| Odontoglossum ringspot virus on (1): '281'. | |
| MIMOSA L. | LEGUMINOSAE |
| (1) <i>M. pudica</i> L., sensitive plant | |
| <i>Cassytha filiformis</i> L., parasitic vine, '225'. | |
| <i>Cuscuta sandwichiana</i> Choisy, dodder, '225'. | |

MIMOSA (cont'd)

Meloidogyne sp., root-knot nematode, '278'.

MODIOLA Moench

MALVACEAE

(1) *M. caroliniana* (L.) G. Don, modiola

Cercospora althaeina Sacc, '250'; probably in error for *C. modiolae* Tharp, fide Chupp, "52: 375 and 369".

MOMORDICA L.

CUCURBITACEAE

(1) *M. balsamina* L., balsam apple

(2) *M. charantia* L., bitter melon

(3) *M. charantia* L. var. *pavel*

Colletotrichum ?lagenarium (Pass.) Ell. & Halst.

(=*C. orbiculare* (Berk. & Mont.) v. Arx), anthracnose, on (2): '281'.

Meloidogyne sp., root-knot nematode, on (1): '278'.

Oidium sp., powdery mildew, on (2): '225'.

Pythium aphanidermatum (Edson) Fitzp., root rot, on (2): '281'.

Rotylenchulus reniformis Linford & Oliveira, reniform nematode, on (2): '281'.

Cucumber mosaic virus on (2): '281'.

Watermelon mosaic virus on (3): '238'.

MONDO Adans: see *Ophiopogon* (Liliaceae)

MORINDA L.

RUBIACEAE

(1) *M. citrifolia* L., Indian mulberry

Chaetothyrium hawaiiensis Mendoza, '250'.

Phaeosaccardinula morindae Mendoza, '250'.

MUCUNA Adans.

LEGUMINOSAE

- (1) *M. deeringianum* (Bort.) Merr., Florida velvet bean
- (2) *M. gigantea* (Willd.) DC, sea bean
- (3) *M. novaguinensis* Scheff
- (4) *M. sp.*

Colletotrichum gloeosporioides (Penz.) Sacc, anthracnose, on (3): '225'.

Meloidogyne sp., root-knot nematode, on (1): '278'.

Phyllosticta macunae Ell. & Ev., leafspot, on (4): '250'.

Phytophthora cinnamomi Rands, root rot, on (2): '194'.

P. palmivora Butl., on (1): '278', and (2): '194'.

P. parasitica Dastur, on (1): '278', and (2): '194'.

MURRAYA Koenig ex L.

RUTACEAE

- (1) *M. paniculata* (L.) Jack (= *M. exotica* L.), orange jasmine

Pythium sp., root rot, '281'.

Rotylenchulus reniformis, Linford & Oliveira, reniform nematode, on (1): '167'.

MUSA L.

MUSACEAE

- (1) *M. acuminata* (AAA) Sims, banana
- (2) *M. acuminata* x *bulbisiana* (AAB) Sims, cv. Maia maoli moa, Popoulumoa and Rajapuri
- (3) *M. bulbisiana* Colla
- (4) *M. coccinea* Andrews, flowering banana
- (5) *M. sp.*

Ceratocystis paradoxa (Moreau) Dade, fruit rot, on (1): '191'.

MUSA (cont'd)

Cercospora musae Zimm., leafspot, on (1): '99'; see *Mycosphaerella musicola*.

Chaetothyrium Musarum Speg., , sooty blotch, on (1): '191'.

Colletotrichum gloeosporioides (Penz.) Sacc, anthracnose, fruit rot, on (1): '280'.

C. musae (Berk. & Curt.) v. Arx (as *Gloeosporium m.* Berk. & Curt.), anthracnose, on (5): '250'.

Cordana musae (Zimm.) Hoehn. , leafspot, on (1): '191'.

Criconemoides sphaerocephelus Taylor, ring nematode, on (1): '119'.

Curvularia sp., leafspot, on (1): '191'.

Deightonella torulosa (Syd.) M.B. Ellis, eye spot, on (1): '191', '280', and (4) : '281'.

Fusarium moniliforme Sheldon var. *subglutinans* Wr. & Reink., heart rot, on (1): '191'.

F. oxysporum Schlecht. em. Snyder & Hans., on (5): '27'.

F. oxysporum Schlecht. var. *cubense* (E.F.Sm.) Wr., wilt or Panama disease, on (1): '191', '212'.

Gloeosporium sp. (=*G. musarum* Cke. & Masee), on '39', '272', but see above)

Guignardia musae Stevens, on (1): '270', and (5): '250' (anamorph:

Phyllostictina musarum (Cke.) Petrak., and *Macrophoma musae*, q.v.).

Helicotylenchus dihystra (Steiner) Sher, (= *H. nannus* Steiner), spiral nematode, on (1): '100'.

H. multicinctus (Cobb) Golden, spiral nematode, on (1): '119', '280'.

Helminthosporium sp., leafspot on (1): '191'.

Hendersonia toruloides Nattrasa, leafspot, on (1) : '191'.

Hopolaimus sp., nematode, on (5) : '239'.

MUSA (cont'd)

Macrophoma musae (Cke.) Berl. & Vogl., freckle, on (1): '284'.

Marasmius semiustus Berk. & Curt., trunk and root rot, on (1): '191', '284'.

Meloidogyne incognita (Kofoed & White) Chitwood, root-knot nematode, on (1): '119'.

M. sp., on (1): '28', '100'.

Mycosphaerella fijiensis Morelet, (anamorph: *Paracercospora f.* (Morelet) Deighton), on (1): '191', '192'.

M. musicola Leach (anamorph: *Cercospora musae* Zimm.), leafspot, on (1): '99', '191'.

Penicillium sp., on (5): '37'.

Pestalotia leprogena Speg., ring spot, on (1): '191'.

P. sp., on (5): '250'.

Phoma musae Carpenter, on (1): '28'.

Phyllosticta musae Stev. & Young, leafspot, on (1): '191', and (5): '250'.

P. musicola Stev. & Young, leafspot, on (1): '191', and (5): '250'.

Phyllostictina musarum (Cke.) Petrak, freckle and black spot, on (1): '191', '250'.

Pratylenchus coffeae (Zimm.) Filip. & Schuur. Stekh., lesion nematode, on (1): '100', '119'.

Pythium aphanidermatum (Edson) Fitzp., basal stem rot, on (1): '191'.

P. arrhenomanes Drechsl., root rot, on (1): '243'.

P. sp., on (5): '31'.

Radopholus similis (Cobb) Thorne, burrowing nematode, on (1): '59', '119', on (2): '281', and on (3): '119'.

MUSA (cont'd)

R. sp. on (5): '100'.

Rhizopus nigricans Ehr., fruit rot, on (1): '191'.

Rotylenchulus reniformis Linford & Oliveira, reniform nematode, on (1): '167', and (3): '119'.

R. sp., on (1): '239'.

Tylenchorhynchus sp., stunt nematode, on (1): '100'.

Verticillium theobromae (Turc.) Mason & Hughes, fruit rot, on (1): '191'.

Zygosporium oscheoides Mont., on leaf of (1): '15'.

Cucumber mosaic virus on (1): '15'.

Mosaic virus on (1): '99'.

MYOPORUM R.G.A. Forst.

MYOPORACEAE

(1) *M. lacteum* Forst., naio

(2) *M. sandwicense* Gray

Armillaria mellea (Vahl ex Fr.) Kummer, root rot, on (2): '159'.

Rhizoctonia sp., root rot, on (1): '281'.

MYRSINE L.

MYRSINACEAE

(=*Suttonia* Mez non A. Rich)

(1) *M. kauaiensis* Hbd.

(2) *M. lanaiensis* Hbd.

(3) *M. lessartiana* A.DC., kolea

(4) *M. sandwicensis* A.DC.

(5) *M. sp.*

Amazonia suttoniae (Stev.) Hansf. (= *Actinodothis* s. Stevens) on (1) and (3): '96', '250'.

MYRSINE (cont'd)

Armillaria Mellea (Vahl ex Fr.) Kummer, root rot, on (3): '159', '281'.

Asterina suttoniae Stev. & Ryan, on (5): '250'.

Beelia suttoniae Stev. & Ryan, on (2): '250'.

Calothyrium suttoniae Stev. & Ryan, on (4): '250'.

Hendersonia nitida Ell. & Ev. (= *Stagonospora nitida* (Ell. & Ev.) Sacc.), on leaves of (5): '250'.

Meliola sp., black mildew, on (5): '250'.

Oligostroma suttoniae Stevens, leafspot, on (3): '250'.

Phytophthora cinnamomi Rands, root rot; (3) moderately tolerant to infection, '146'.

Stagonospora nitida (Ell. & Ev.) Sacc., on (5), '15'.

Stomiopeltella suttoniae Mendoza, black leafspot, on (3): '279', '284'.

Trichopeltis reptans Speg., on (3): '250'.

NASTURTIUM R. Br.

CRUCIFERAE

(1) *N. officinale* R. Br., watercress

Cercospora nasturtii Pass., leafspot, '281'.

NELUMBO Adans.

NELUMBONACEAE

(= *Nelumbium* Juss.)

(1) *N. nucifera* Gaertn. (= *Nelumbium nelumbo* (L.) Druce), lotus

Hirschmanniella diversa Sher (as *H. gracilis* (de Man) Luc & Goodey), nematode, '119'.

Radopholus sp., burrowing nematode, '119', '239'.

NEPHROLEPIS Schott

POLYPODIACEAE

- (1) *N. biserrata* Schott, sword fern
- (2) *N. exaltata* Schott
- (3) *N. sp.*

Aphelenchoides fragariae (Ritz.-Bos) Christie, Foliar nematode, on (1): '239'.

Pratylenchus sp., lesion nematode, (3): '281'.

Pythium sp., root rot, on (1) and (2): '281'.

Ramularia nephrolepis Stevens, leafspot, on (2): '250'.

Rhizoctonia sp., root rot, on (3): '281'.

NERIUM L.

APOCYANACEAE

- (1) *N. oleander* L., oleander

Cercospora nerii-indica Yamamoto, leafspot, '281'.

Colletotrichum sp., leafspot, '107'.

Diaporthe sp., on dead and dying branches, '251'.

Phyllosticta nerii West., leafspot, '250'.

Physalospora obtusa (Schw.) Cke., on twigs, '251'.

Poria sp., wood rot, '27'.

Pythium sp., root rot, '281'.

Rhizoctonia sp., root rot, '281'.

Sphaeropsis gouldiae Stev. & Plunkett, canker, '251'.

NICANDRA Adans.

SOLANACEAE

- (1) *N. physalodes* Scop., apple-of-Peru

Macrophomina phaseolina (Tassi) Goid. (= *Sclerotium bataticola* Taub.) charcoal rot, '281'.

NICANDRA (cont'd)

Meloidogyne sp., root-knot nematode, '278'.

Sclerotinia sclerotiorum (Lib.) de Bary, sclerotinia rot, '281'.

Cucumber mosaic virus, '213'.

Mottle virus, '207'.

NICOTIANA L.

SOLANACEAE

(1) *N. glauca* Grah., tree tobacco

(2) *N. tabacum* L., tobacco

(3) *N. sp.*

Cercospora nicotianae Ell. & Ev., frog-eye spot, on (2): '250'.

Meloidogyne sp., root-knot nematode, on (2): '28'.

Pseudomonas solanacearum E.F.Sm., bacterial wilt, on (2): '28'.

Mosaic virus on (2): '28'.

Mottle mosaic virus on (2): '213'.

Spotted wilt virus on (1): '237', on (2): '188', '237', and on (3): '278'.

NOTHOPANAX Miq.: see *Polyscias* (Araliaceae)

OCIMUM L.

LABIATAE

(1) *O. gratissimum* L.

Rhizoctonia sp., root rot, '281'.

ODONTOGLOSSUM HBK.

ORCHIDACEAE

(1) *O. sp.*

ODONTOGLOSSUM (cont'd)

Cymbidium mosaic virus, '281'.

Odontoglossum ringspot virus, '281'.

ODONTONEMA Nees

ACANTHACEAE

(1) *O. strictum* (Nees) Kuntze, red justicia

Cassytha filiformis L., parasitic vine, '225'.

OLEA L.

OLEACEAE

(1) *O. europea* L., olive

Pythium sp., root rot, '281'.

ONCIDIUM Sw.

ORCHIDACEAE

(2) *O. altissimum* (Jacq.) Sw.

(3) *O. ampliatus* Lindl.

(4) *O. anthocrene* Rchb.f.

(5) *O. papilis* Lindl.

(6) *O. pulvinatum* Lindl.

(7) *O. variegatum* Sw.

(8) *O. sp.*

Fusarium sp., ?root rot, on (7): '198'.

Uredo oncidii P. Henn., rust, on (7): '284'.

Cymbidium mosaic virus on (1) to (7): '281'.

Mosaic virus on (7): '107'.

Odontoglossum ringspot virus on (7): '281'.

OPHIOPOGON Ker-Gawl.

LILIACEAE

- (1) *O. japonicus* (L.f.) Ker-Gawl. (syn.: Mondo j. (L.f.) Farw.), lily turf or mondo grass

Colletotrichum falcatum Went, anthracnose, '281'.

Curvularia lunata (Wakker) Boedijn, leafspot, '281'.

Meloidogyne incognita (Kofoed & White) Chitwood, root-knot nematode, '119'.
M. sp., '225'.

Pythium sp., root rot, '281'.

Rhizoctonia sp., root rot, '281'.

Vermicularia ?trichella (Fr ex Fr.) Fr. (=Colletotrichum t. (Fr. ex Fr.) Duke), leafspot, '281'.

OPUNTIA Mill.

CACTACEAE

- (1) *O. megacantha* Salm-Dyck, prickly pear
(2) *O. sp.*

Diplodia opuntiae Sacc., cladode rot, on (2): '28'.

Fusarium oxysporum Schlecht. em Snyder & Hans., root rot, on (1): '34'.

Macrophoma opunticola (Speg.) Sacc., cladode rot, on (2): '284'.

ORNITHOGALUM L.

LILIACEAE

- (1) *O. thyrsoides* Jacq., star-of-Bethlehem

Meloidogyne sp., root-knot nematode, '225'.

ORYZA L.

GRAMINEAE

- (1) *O. sativa* L., rice

Aphelenchoides besseyi Christie, foliar nematode, '281'.

ORYZA (cont'd)

Bipolaris hawaiiensis (M.B. Ellis) Tsuda & Ueyama, (anamorph of *Pseudocochliobolus* h. (Alcorn) Tsuda & Ueyama), on grains of '271'.

Helminthosporium sp. (= *H. ?oryzae* Breda de Haan = *Bipolaris o.* (B. de Haan) Shoemaker), brown spot, '215'.

Pyricularia grisea (Cke.) Sacc., '269', but see *P. oryzae* Cav., blast, '212'.

Pythium aphanidermatum (Edson) Fitzp., root rot, '31'.

P. sp., '9'.

OSMANTHUS Lour.

OLEACEAE

(1) *O. sandwicensis* (Gray) Knobl., pua

Armillaria mellea (Vahl ex Fr.) Kummer, root rot, '159'.

Asterinella intense (Cke. & Masee) Theiss., black leafspot, '250'.

Aulacostroma osmanthi Stev. & Ryan, on leaves, '250'.

Calothyriella osmanthi Stev. & Ryan, on leaves, '250'.

Calothyrium osmanthi on leaves, '250'.

Fomes hawaiiensis Lloyd, wood rot, '284'.

Meliola osmanthi Syd. var. *hawaiiensis* Hansf., '96'.

M. osmanthicola Hansf., '96'.

M. osmanthi Syd. var. *hawaiiensis* Hansf., '96'.

M. osmanthina Hansf., '96'.

OSTEOMELES Lindl.

ROSACEAE

(1) *O. anthyllidifolia* (Sm.) Lindl., 'ulei.

(2) *O. sp.*

Diaporthe sp., on dead and dying branches of (1): '269'.

OSTEOMELES (cont'd)

Irene calostroma (Desm.) Hoehn., black mildew, on (2): '284'.

Physalospora obtusa (Schw.) Cooke, on branches of (1): '251'.

OXALIS L.

OXALIDACEAE

(1) *O. corniculata* L., yellow wood sorrel

(2) *O. corniculata* L., var. *viscidula* Wieg., sticky sorrel

(3) *O. martiana* Zucc., pink wood sorrel

Meloidogyne sp., root-knot nematode, on (1) and (3): '278'.

Paratylenchus elachistus Steiner (as *P. minutus* Linford), pin nematode, on (2): '168'.

Pratylenchus pratensis (de Man) Filip., lesion nematode, on (3): '278'.

Puccinia sorghi Schw., corn rust, O, I on 94): '281'.

PACHYRRHIZUS L.C. Rich

LEGUMINOSAE

(1) *P. erosus* (L.) Urb., yam bean

Pseudomonas syringae pv. *phaseolicola* (Burkh.) Dows., halo blight, '281'.

Rhizoctonia sp., root rot, '281'.

PAEDERIA L.

RUBIACEAE

(1) *P. foetida* L., maile pilau

Cassytha filiformis L., parasitic vine, '225'.

Coleosporium paederiae Diet., rust, '250'.

PAEONIA L.

RANUNCULACEAE

(1) *P. suffruticosa* Haw., tree peony

PAEONIA (cont'd)

Rhizoctonia sp., root rot, '281'.

PALMAE

(1) Unidentified palms

Delortia palmicola Pat., on litter of (1): '93'.

Helicoma westoni Linder, on leaves and inflorescence of (1): '93'.

Meliola palmicola Wint., black mildew, on (1): '96, '250'.

Thaxteriella pezizula (Berk. & Curt.) Petrak (anamorph: *Helicoma muelleri* Corda), on petioles of (1): '96'.

PANCRATIUM L.

AMARYLLIDACEAE

(1) *P. littorale* Jacq., spider lily

Stagonospora curtisii (Berk.) Sacc., leaf scorch, on (1): '281'.

PANDANUS S. PARK

PANDANACEAE

(1) *P. odorifer* (Forssk.) Chiovenda (= *P. odoratissimus* L.F.)

(2) *P. tinctorius* Sol.

(3) *P. sp.*

Botryosphaeria ribis Gross. & Duggar var. *chromogena* Shear, N. E. Stev. & M.S. Wilcox, on stems of (1): '251'.

Cassytha filiformis L., parasitic vine, on (1): '225'.

Cuscuta sandwichiana Choisy, dodder, on (1): '225'.

Diaporthe sp., on dead and dying branches of (1): '251'.

Glomerella cingulata (Stonem.) Spauld. & v. Schrenk, on leaf of (2): '15'.

Hobsonia mirabilis (Peck) Linder, on bark of dead (2): '15'.

PANDANUS (cont'd)

Melanconium pandani Lev., leafspot on (1): '250', and on fruits of (2): '15'.

Physarella oblonga Morg., on bark of dead (2): '15'.

Phytophthora cinnamomi Rands, root rot, on (3): '146'.

Pleurotus ostreatus Jacq., on decaying trunk of (2): '15'.

Rhizoctonia sp., root rot, on (3): '281'.

Schizochora pandani Stevens, on leaves of (1): '250'.

Trametes corrugata Pers. ex Bres., wood rot, on (1): '284'.

T. scabrosa on decaying trunk of (1): '15'.

Zygosporium oscheoides Mont., on leaf of (2): '15'.

PANICUM L.

GRAMINEAE

(1) *P. clandestinum* Hochst. ex Choisy, kikuyu grass

(2) *P. fasciculatum* Swartz, browntop millet

(3) *P. maximum* Jacq., Guinea grass

(4) *P. nephelophilum* Gaud.

(5) *P. purpurascens* Raddi (= *Brachiaria mutica* (Forsk.) Stapf), para grass

(6) *P. repens* L., waicaku grass

Bipolaris setariae (Saw.) Shoem., leafspot, on (1): '273'.

Cassytha filiformis L., parasitic vine, on (5): '225'.

Helminthosporium sacchari (Breda de Haan) Butl., leafspot, on (5): '280'.

H. sp., on (5): '212'.

Puccinia esclavensis Diet. & Holw., rust, on (4): '250'.

Pythium arrhenomanes Drechsl., on (3): '280', and (5): '243'.

PANICUM (cont'd)

P. artotrogus (Mont.) de Bary, on (5): '246'.

P. rostratum Butl., on (3): '284', and (5): '243'.

Sclerospora graminicola (Sacc.) Schroet., downy mildew, on (5): '225'.

Uromyces graminicola Burr., rust, on (3): '281'.

U. leptodermus H. & P. Syd. (= *U. setariae-italicae* Yosh., fide Cummins, '61'),
rust, on (5): '250'.

Ustilago panici-proliferi P. Henn., smut, on (6): '181'.

PAPHIOPEDILUM Pfitz.

ORCHIDACEAE

(1) *P. sp.*, lady-slipper orchid

Phytophthora palmivora Butl., root rot, '101'.

Cymbidium mosaic virus, '281'.

PASPALUM L.

GRAMINEAE

(1) *P. conjugatum* Berg., hilo grass

(2) *P. dilatatum* Poir., Dallas grass

(3) *P. orbiculare* Forst.f., rice grass

(4) *P. urvillei* Steud., Vasey grass

(5) *P. sp.*

Cassytha filiformis L., parasitic vine, on (1): '225'.

Claviceps paspali Stev. & Hall, on (2) and (3): '215'.

Curvularia sp., leafspot, on (1): '188'.

Leptosphaeria proteispora Speg., on (1): '250'.

Meloidogyne sp., root-knot nematode, on (4): '284'.

Pratylenchus pratensis (de Man) Filip., lesion nematode, on (3): '278'.

PASPALUM (cont'd)

Puccinia huberi P. Henn., rust, on (2): '151'.

P. levis (Sacc. & Bizz.) Magn., rust, on (3): '250'.

Rhizoctonia sp., root rot, on (1): '281'.

Sorosporium paspali McAlp. (*S. paspali-thunbergii* (P.Henn.) S. Ito), smut, on (1)
and (3): '250', on (2): '215', and on (5): '284'.

Ustilago schroeteriana P. Henn., smut, on (5): '281'.

PASSIFLORA L.

PASSIFLORACEAE

(1) *P. edulis* Sims, passion fruit

(2) *P. edulis* Sims f. *flavicarpa* Degener, yellow passion

(3) *P. foetida* L., love-in-a-mist

(4) *P. laurifolia* L., yellow granadilla

(5) *P. quadrangularis* L., giant granadilla

(6) *P. seemanni* Grisb.

(7) *P. suberosa* L.

(8) *P. sp.*

Alternaria passiflorae Simmonds, leaf and pd spot, on (1), (3), (5) and (7): '101',
and on (2): '198'.

A. tomato (Cke.) Weber, on (1): '6', '101', and (2): '101'.

A. sp. (=?*A. tenuis* Auct.), on (1): '11', '101', on (2), (3), and (5): '101'.

Botrytis sp., on (8): '250'.

Cassytha filiformis L., parasitic vine, on (3): '225'.

Colletotrichum gloeosporioides (Penx.) Sacc., stem and leafspot, on (2): '280'.

C. passiflorae Stev. & Young (=?*C. crassipes* (Speg.) v. Arx), on leaves and fruit,
on (1) and (4): '250'.

PASSIFLORA (cont'd)

Cuscuta sandwichiana Choisy, dodder, on (1) and (3): '225'.

Helicotylenchus dihyster (Cobb) Sher, spiral nematode, on (2): '119'

Meloidogyne incognita (Kofoed & White) Chitwood, root-knot nematode, on (2): '119'.

M. sp., root-knot nematode, on (1): '281', and (8): '280'.

Phomopsis sp., on (2): '280'.

Phytophthora sp., root rot, on (2): '280'.

Pratylenchus sp., lesion nematode, on (1): '119'.

Pythium aphanidermatum (Edson) Fitzp., root rot, on (2): '11'.

P. splendens Braun, root rot, on (2): '11'.

Rhizoctonia (solani) Kuehn), root rot, on (2): '280'.

R. sp., root rot, on (1): '281'.

Rotylenchulus reniformis Linford & Oliveira, reniform nematode, on (1): '119', on (2): '119', '167', and (6): '167'.

Stemphylium sp., on (3): '101'.

Trichodorus sp., stubby-root nematode, on (1): '281'.

Mosaic virus, on (2): '198', and (3): '225'.

PELARGONIUM L'Herit.

GERANIACEAE

(1) *P. hortorum* Bailey

(2) *P. sp.*

Botrytis cinerea Pers. ex Fr., leaf blight, on (2): '281'.

Puccinia pelargonii-zonalis Doidge, rust, on (1): '188'.

Pythium sp., root rot, on (1): '281'.

PELARGONIUM (cont'd)

Rhizoctonia sp., root rot, on (2): '281'.

Cucumber mosaic virus, on (2): '281'.

PELEA Gray

RUTACEAE

- (1) *P. anisota* Mann, mokihana
- (2) *P. barbigera* (Gray) Hbd., uahe a pele
- (3) *P. cinerea* (Gray) Hbd.
- (4) *P. clusiaefolia* Gray
- (5) *P. elliptica* (Gray) Hbd.
- (6) *P. hawaiiensis* Wawra
- (7) *P. kauaiensis* Mann, pila ula
- (8) *P. parvifolia* Hbd.
- (9) *P. rotundifolia* Gray
- (10) *P. sandwicensis* (Hook. & Arn.) Gray, alani
- (11) *P. sp.*

Gloeosporium peleae Stevens, (= *Colletotrichum gloeosporioides* (Penz.) Sacc.), on galls caused by the psyllid *Hevaheva perkini* on (11): '250'.

Hexagonella peleae Stev. & Guba, on (9): '250'.

Kernella lauricola (Thirum.) Thirum., rust, on (1): '281'.

Meliola juddiana Stevens, black mildew., on (3), (4), (5), (6), (8), (9), (10) and (11): '96', '250'.

M. kisubiensis Hansf. var. *peleicaola* Hansf., on (11): '96', '250', and (5): '250'.

M. peleae Stevens, on (2), (3), (9), (10) and (11): '96', '250', and (5): '250'.

M. recurvipoda Hansf., on (6): '96'.

Phragmocapnias smilicina Mendoza, on (11): '250'.

PELEA (cont'd)

Trichopeltis reptans Speg., on (7) and (11): '250'.

Trichothallus hawaiiensis Stevens, on (11): '250'.

Trichothecium roseum Link, pink mold, on (11): '279'.

PENNISETUM L.C. Rich. ex Pers.

GRAMINEAE

(1) *P. clandestinum* Hochst., kikuyu grass

(2) *P. glaucum* (L.) Br., pearl millet

(3) *P. purpureum* Schumach., napier grass

(4) *P. sp.*

Cassytha filiformis L., parasitic vine, on (3): '225'.

Criconemoides sp., ring nematode, on (3): '119'.

Curvularia ?lunata (Wakker) Boedijn, on (1): '281'.

Helicotylenchus dihystra (Cobb) Sher (as *Tylenchus spiralis* Cassidy), spiral nematode, on (3): '119'.

Helminthosporium sacchari (Breda de Haan) Butl., leafspot, on (2): '284', and (3): '179'.

H. turcicum Pass., leafspot, on (1): '281'.

Leptosphaeria sacchari Breda de Haan, on (3): '218'.

Meloidogyne sp., root-knot nematode, on (1): '158'.

Phakospora sp., leafspot, on (3): '218'.

Phyllosticta sp., leafspot, on (3): '218'.

Puccinia sp., on (1): '158'.

PENTAS Benth.

RUBIACEAE

(1) *P. lanceolata* (Forsk.) Schum.

Aphelenchoides fragariae (Ritz.-Bos) Christie, foliar nematode, '139'.

PENTAS (cont'd)

Sclerotium rolfsii Sacc., southern blight, '281'.

PEPEROMIA Ruiz & Pav.

PEPEROMIACEAE

(1) *P. caperata* Yuncker

(2) *P. metallica* Lindl. & Rod.

(3) *P. obtusifolia* (L.) A. Dietr.

(4) *P. reflexa* (L.f. A. Dietr. (= *P. tetraphylla* (Forst.f.) Hook. & Arn.)

(5) *P. sp.*

Phytophthora palmivora Butl., root rot, on (3): '281'.

Pythium splendens Braun, root rot, on (5): '281'.

P. sp., root rot, on (1) and (4): '281'.

Rhizoctonia sp., root rot, on (2) and (3): '281'.

Trichopeltis reptans Speg., on (5): '250'.

Ringspot virus, on (5): '250'.

PERROTTETIA HBK.

CELASTRACEAE

(1) *P. sandwiciensis* Gray, olomea

Amazonia stevensii Hansf., '96'.

Appendiculella kalalauensis Hansf., '96'.

Asteridiella perrottetiae (Stev.) Hansf. (syn.: *Actinodothis* p. Stevens), '96', '250'.

Phytophthora cinnamomi Rands, (1) a moderately tolerant host: '146'.

PERSEA Mill.

LAURACEAE

(1) *P. Americana* Mill. (= *P. gratissima* Gaertn.), avocado

PERSEA (cont'd)

(1) *P. sp.*

Cephaleuros mycoidea karst., algal leafspot, on (1): '225'.

C. virescens Kunze, parasitic alga, on (1): '281'.

Cercospora sp. (= ?*C. purpurea* Cke.), leafspot, on (1): '284'.

Colletotrichum gloeosporioides (Penz.) Sacc., anthracnose, on (1): '281'.

Cuscuta sandwichiana Choisy, dodder, on (1): '225'.

Cylindrocladium sp., root rot, on (1): '281'.

Dothiorella sp., Fruit rot, on (1): '280', '281'.

Fusarium solani (Mart.) Appel & Wr. *F. radicola* (Wr.) Snyder & Hans., root rot, on (2): '250'.

Gloeosporium sp., rusty blight, on (1): '27'.

Glomerella cingulata (Stonem.) Spauld. & v. Schrenk, anthracnose, on (1): '28'.

Physalospora obtusa (Schw.) Cke., on (1): '284'.

Phytophthora cinnamomi Rands, root rot, on (1): '146', '280'.

Pythium sp., root rot, on (1): '281'.

Rhizoctonia sp., root rot, on (1): '281'.

PETROSELINUM Hill

UMBELLIFERAE

(1) *P. crispum* (Mill.) Nym., parsley

Cercospora ?petroselini Sacc., leafspot, '281'.

Meloidogyne incognita Chitwood var. *acrita* Chitwood, root-knot nematode, '239'.

Phytophthora parasitica Dastur, root rot, '112'.

Phthium aphanidermatum (Edson) Fitzp., '281'.

Rhizoctonia (solani) Kuehn, root rot, '280'.

PETROSELINUM (cont'd)

Sclerotinia sclerotiorum (Lib.) de Bary, sclerotinia rot, '281'.

Septoria petroselini Desm., leafspot, '27'.

PETUNIA Juss.

SOLANACEAE

(1) *P. hybrida* Vilm., petunia

(2) *P. sp.*

Botrytis cinerea Pers. ex Fr., blossom blight, on (1): '218'.

Meloidogyne sp., root-knot nematode, on (1): '281', and (2): '284'.

Pseudomonas solanacearum (E.F.Sm.) Stapp, bacterial wilt, on (2): '279'.

Pythium sp., on (1): '281'.

Rhizoctonia sp., on (1): '213'.

Cucumber mosaic virus, on (1): '213'.

Mosaic virus, on (1): '225'.

PHAIUS Lour.

ORCHIDACEAE

(1) *P. grandifolius* Lour.

(2) *P. sp.*

Cymbidium mosaic virus, on (1): '281'.

Virus on (2): '199'.

PHALAENOPSIS Blume

ORCHIDACEAE

(1) *P. sp.*

Fusarium sp., '198'.

Pseudomonas andropogoni (E.F.Sm.) Stapp, '100'.

PHALAENOPSIS (cont'd)

P. sp., bacterial leafspot, '281'.

Cymbidium mosaic virus, '281'.

Mosaic virus, '107'.

Odontoglossum ringspot virus, '281'.

PHASEOLUS L.

LEGUMINOSAE

(1) *P. angularis* (Willd.) W.F. Wright, azuki bean

(2) *P. aureus* Roxb., mung bean

(3) *P. calcaratus* Roxb., rice bean

(4) *P. lathyroides* L., wild bean

(5) *P. limensis* Macbr., Lima bean

(6) *P. lunatus* L., sieva bean

(7) *P. vulgaris* L., garden bean

(8) *P. sp.*

Alternaria brassicae (Berk.) Sacc. f. *phaseoli* Brun, leafspot, on (7): '182'.

A. alternata (Fr.) Keissler, leafspot, on (7): '281'.

Ascochyta boltshauseri Sacc., on (5): '280'.

Cercospora cruenta Sacc., leafspot, on (7): '215'.

Colletotrichum lindemuthianum (Sacc. & Magn.) Briosi & Cav., anthracnose, on (5): '225', and (7): '27'.

Diaporthe phaseolorum (Cke. & Ell.) Sacc., pod blight, on (7): '250'.

Erwinia carotovora (L.R. Jones) Holland, soft rot, on (7): '181'.

Fusarium oxysporum Schlecht., wilt, on (7): '281'.

Helicotylenchus sp., spiral nematode, on (7): '281'.

PHASEOLUS (cont'd)

Isariopsis griseola Sacc. (= *Phaeoisariopsis g.* (Sacc.) Ferraris), angular leafspot, on (7): '28'.

Macrophomina phaseolina (Tassi) Goid. (= *Sclerotium bataticola* Taub.), Charcoal rot, on (7): '281'.

Meloidogyne sp., root-knot nematode, on (1): '284', on (3): '82', on (4): '278', on (5): '100', and on (7): '281'.

Oidium sp., powdery mildew, on (2): '281', and (7): '213'.

Paratylenchus elachistus Steiner (as *P. minutus* Linford), pin nematode, on (2) and (4): '168'.

Phoma subcircinata Ella. & Ev., pod blight, on (6): '212'.

Phyllosticta sp., leafspot, on (7): '216'.

Pseudomonas phaseolicola (Burkh.) Dows., halo blight, on (7): '281'.

Pythium arrhenomanes Drechsl., root rot, on (2): '243'.

P. artotrogus (Mont.) de Bary, root rot, on (2): '243'.

P. irregulare Buism., root rot, on (2): '243'.

P. splendens Braun, root rot, on (2): '243'.

Rhizoctonia (solani) Kuehn), root rot, on (7): '280'.

Rotylenchulus reniformis Linford & Oliveira, reniform nematode, on (4), (5) and (7): '167'.

Sclerotinia sclerotiorum (Lib.) de Bary, sclerotinia rot, on (7): '281'.

Sclerotium rolfsii Sacc., southern blight, on (7): '281'.

Uromyces phaseoli (Pers.) Wint. (= *U. appendiculatus* (Pers.) Unger), rust, on (7): '28'.

Xanthomonas phaseoli (E.F.Sm.) Dows., bacterial blight, on (5): '218', and (7): '212'.

Bean mosaic virus on (7): '280'.

Mosaic virus on (7): '169'.

PHASEOLUS (cont'd)

Spotted wilt virus on (7): '170'.

PHILADELPHUS L.

SAXIFRAGA

(1) *P. coronarius* L., mock orange

Cercospora ?angulata Wint., leafspot, '281'.

PHILODENDRON Schott

ARACEAE

(1) *P. hastatum* C. Koch & Sellow

(2) *P. micans* C. Koch

(3) *P. selloum* C. Koch

(4) *P. sp.*

Colletotrichum ?gloeosporioides (Penz.) Sacc., anthracnose, on (4): '281'.

Erwinia carotovora (L.R. Jones) Holland, soft rot, on (3): '281'.

E. chrysanthemi Burkh., soft rot, on (4): '281'.

Pythium sp., root rot, on (2): '281'.

Rhizoctonia sp., root rot, on (1): '281'.

PHLEBODIUM (R.Br.) J.Sm.

POLYPODIACEAE

(1) *P. aureum* (L.) J.Sm., hares-foot fern

Aphelenchoides sp., foliar nematode, '281'.

Pythium sp., root rot, '281'.

PHLOX L.

POLEMONIACEAE

(1) *P. drummonoi* Hook., annual phlox

(2) *P. sp.*

PHLOX (cont'd)

Pythium aphanidermatum (Edson) Fitzp., root rot, on (2): '281'.

Rotylenchulus reniformis Linford & Oliveira, reniform nematode, on (1): '167'.

Septoria ? phlogis Sacc. & Speg., leafspot, on (2): '217'.

PHOENIX L.

PALMAE

(1) *P. dactylifera* L., date palm

Graphiola phoenicis (Moug.) Poit., false smut, '250'.

PHYLA Lour.

VERBENACEAE

(1) *P. nodiflora* (L.) Greene

Meloidogyne sp., root-knot nematode, '281'.

Sclerotium rolfsii Sacc., southern blight, '281'.

PHYLLOCACTUS Link: see Epiphyllum (Cactaceae)

PHYLLOSTEGIA Benth.

LABIATAE

(1) *P. floribunda* Benth.

(2) *P.* sp.

Asterina phyllostegiae Stev. & Ryan, on (2): '250'.

Trichothallus hawaiiensis Stevens, on (1): '250'.

PHYSALIS L.

SOLANACEAE

(1) *P. peruviana* L., ground cherry, poha

Asteridiella acervata (Ell. & Ev.) Hansf. (as *Irene inermis* (Kalchbr. & Cke.) Theiss. & Syd.), sooty mold, '94', '96', '250'.

Cercospora diffusa Ell. & Ev., leafspot, '281'.

PHYSALIS (cont'd)

Meliola sp., black mildew, '279'.

Meloidogyne sp., root-knot nematode, '281'.

Pseudomonas solanacearum E.F.Sm., bacterial wilt, '224'.

Sclerotium rolfsii Sacc., southern blight, '281'.

Tobacco mosaic virus, '281'.

PILEA Lindl.

URTICACEAE

(1) *P. depressa* Blum, baby's tears

(2) *P. macrophylla* (L.) Liebm., artillery plant

(3) *P. nummularifolia* (Sw.) Wedd., creeping Charlie

Colletotrichum gloeosporioides (Penz.) Sacc., anthracnose, on (2): '281'.

Curvularia ?lunata (Wakker) Boedijn, leafspot, on (1): '281'.

Pythium sp., root rot, on (2) and (3): '281'.

Rhizoctonia sp., root rot, on (1) and (3): '281'.

PIMENTA Lindl.

MYRTACEAE

(1) *P. racemosa* (Mill.) J.W. Moore, bay-rum tree

Gloeosporium sp., anthracnose, '281'.

PINUS L.

PINACEAE

(1) *P. attenuate* Lemm., knob-cone pine

(2) *P. echinata* Mill., shortleaf pine

(3) *P. elliottii* Engelm., slash pine

(4) *P. halepensis* Mill., Aleppo pine

(5) *P. montezumae* Lamb., Aztec or Montezuma pine

PINUS (cont'd)

- (6) *P. occidentalis* Swartz
- (7) *P. pinaster* Ait., cluster pine
- (8) *P. pinea* L., Italian stone pine
- (9) *P. radiata* D. don, Monterey pine
- (10) *P. thunbergii* Parl., Japanese black pine
- (11) *P. sp.*

Armillaria mellea (Vahl ex Fr.) Kummer, root rot, on (2), (4), (5) and (6): '225', on (7): '225', '281', and on (8): '159'.

Diplodia pinea (Desm.) Kickx, on (3) and (7): '281', '282' and on (9): '18'.

Hysterium sp., on (9): '281'.

Lophodermium australe Dearn. (as *L. pinastri* (Schrad. ex Fr.) Chev.), "needle cast", on (3): '282', on (7) and (9): '18', '282'.

Macrophomina phaseolina (Tassi) Goid. (= *Sclerotium Bataticola* Taub.), charcoal rot, on (1): '281'.

Naemacyclus niveus (Pers. ex Fr.) Sacc., needle cast, on (7): '282'.

Phytophthora sp., root rot, on (1): '225'.

Pythium splendens Braun, root rot, on (4): '281'.

P. sp., root rot, on (10): '281'.

Rhizoctonia sp., root rot, on (11): '281'.

PIPER L.

PIPERACEAE

- (1) *P. methysticum* Forst.f.

- (2) *P. ornatum* N.E.Br.

Meloidogyne sp., root-knot nematode, on (1): '281'.

PIPER (cont'd)

Pythium splendens Brau, root rot, on (2): '281'.

PIPTURUS Wedd.

URTICACEAE

(1) *P. albidus* (Hook. & Arn.) Gray, mamake

Armillaria mellea (Vahl ex Fr.) Kummer, '159'.

Asteridiella pipturi Hansf. (as *Irene triloba* (Wint.) Stevens), black mildew, '96', '250'.

Botryosphaeria ribis Gross. & Duggar var. *chromogena* Shear, N.E. Stev. & M.S. Wilcox, on branches, '251'.

Cercospora pipturi Stev. & Glick, leafspot, '250'.

Cyphella villosa (Pers.) Karst., on dead branches, '251'

Diaporthe sp., on dead and dying branches of (1): '251'.

Phytophthora cinnamomi Rands, root rot, '146'.

PISONIA L.

NYCTAGINACEAE

(1) *P. sandwicensis* Hbd.

(2) *P. umbellifera* Seem ex Nadeaud (= *P. excelsa* Blume)

Echinodes pisoniae Stev. & Ryan, on (1) and (2): '250'.

PISUM L.

LEGUMINOSAE

(1) *P. sativum* L., pea

(2) *P. sativum* L. var. *macrocarpon* Ser., edible-podded pea

Ascochyta pinodes L.K. Jones: see *Mycosphaerella pinodes*.

A. pisi Lib., leaf and pod spot, on (1): '213', '281'.

A. sp., on (1): '215'.

Colletotrichum falcatum Wint., leafspot, on (2): '281'.

PISUM (cont'd)

C. pisi Pat., anthracnose, on (1) and (2): '281'.

Fusarium oxysporum Schlecht., f. *pisi* Linford, on (2): '78'.

F. sp., on (1): '278'.

Meloidogyne sp., root-knot nematode, on (1): '278', and (2): '281'.

Mycosphaerella pinodes (Berk. & Blox.) Vestergr. (anamorph: *Ascochyta p. L.K. Jines*), ascochyta blight, on (1) and (2): '281'.

Oidium sp., powdery mildew, on (1): '281', and (2): '78'.

Pythium sp., root rot, on (1): '281', and (2): '281'.

Rhizoctonia sp., root rot, on (1): '218', and (2): '281'.

Roytlenchulus reniformis Linford & Oliveira, reniform nematode, on (1): '167', and (2): '281'.

Mosaic virus on (1): '213'.

Spotted wilt virus on (1): '163'.

PITHECELLOBIUM Mart.

LEGUMINOSAE

(1) *P. saman* Benth., rain tree

(2) *P. unguis-cati* (L.) Benth., cats claw, black beed

Phyllosticta pithecellobii Young (as *P. pithecolobi*) on (1): '250'.

Polyporus gilvus Schw. ex Fr., wood rot, on (1): '284', and (2): '26'.

Rhizoctonia sp., root rot, on (2): '281'.

PITTOSPORUM Banks ex Soland

PITTOSPORACEAE

(1) *P. crassifolium* Soland. ex Putterl

(2) *P. tobera* (Thunb.) Ait., Japanese pittosporum

PITTOSPORUM (cont'd)

Cercospora pittospori Plakidas, leafspot, on (2): '281'.

Meloidogyne sp., root-knot nematode, on (2): '281'.

Pythium sp., root rot, on (1) and (2): '281'.

Rhabdospora pittospori Stev., & Young, on dea (3): '250'.

Rhizoctonia sp., root rot, on (2): '281'.

PLANTAGO L.

PLANTAGINACEAE

(1) *P.* sp.

Cercospora plantaginis Sacc., leafspot, '250'.

PLATYCERIUM Desv.

POLYPODIACEAE

(1) *P. grande* J. Sm., large elkhorn fern

Cercospora ?platycerii Chupp, frond spot, '281'.

PLATYDESMA Mann

RUTACEAE

(1) *P. spathulata* (Gray) Stone (= *P. campanulata* Mann), pilo kea

Clypeoseptoria rockii Stev. & Young, '250'.

PLECTRANTHUS L'Herit.

LABIATAE

(1) *P. parviflorus* Willd. (= *P. australis* R.Br.)

Helminthosporium sp., leaf and stem blight, '281'.

PLUCHEA Cass.

COMPOSITAE

(1) *P. fosbergii*

(2) *P. odorata* (L.) Cass., sour bush

Aphelenchoides besseyi Christie, foliar nematode, on (2): '239'.

PLUCHEA (cont'd)

Cassytha filiformis L., parasitic vine, on (2): '225'.

Lingnincola laevis Hoehn., on wood of submerged branch of (1): '15'.

Periconia prolifica Anast. (anamorph of *Renispora cucullata* q.v.), on submerged branch of (1): '15'.

Renispora cucullata Kohlm., on submerged branch of (1): '15'.

PLUMERIA L.

APOCYANACEAE

(1) *P. acuminata* Ait.

(2) *P. sp.*

Botrytis ?cinerea Pers. ex Fr., blossom blight, on (1): '281'.

Colletotrichum gloeosporioides (Penz.) Sacc., anthracnose, on (2): '225'.

Criconemoides sp., ring nematode, on (2): '281'.

Gleosporium sp., on (2): '281'.

Phomopsis sp., on (2): '281'.

Phythium sp., root rot, on (1): '281'.

Rhizoctonia sp., root rot, on (1): '281'.

Thielaviopsis paradoxa (de Seynes) Hoehn. (anamorph of *Ceratocystis* p. (Dade) Moreau), on (2): '281'.

POA L.

GRAMINEAE

(1) *P. annua* L., annual bluegrass

(2) *P. pratensis* L., Kentucky grass

(3) *P. trivialis* L., bird grass

Puccinia ?poae-nemoralis Otth (as *P. epiphylla*) (L.) Wettst.) rust, on (1): '250'.

POA (cont'd)

P. recondita Rob. ex Desm., rust, on (2): '281'.

Pythium sp., root rot, on (3): '281'.

Septoria poae-trivialis Cocconi, on (1): '250'.

PODOCARPUS L'Herit ex Pers.

PODOCARPACEAE

(1) *P. macrophyllus* (Thunb.) D. Don

Pythium sp., root rot, '281'.

Rhizoctonia sp., root rot, '281'.

POLIANTHES L.

AGAVACEAE

(1) *P. tuberosa* L., tuberose

Aphelenchoides sp., foliar nematode, '281'.

Botrytis cinerea Pers. ex Fr., blossom blight, '281'.

Ditylenchus sp., stem and bulb nematode, '281'.

Meloidogyne sp., root-knot nematode, '281'.

Rhizoctonia sp., root rot, '281'.

Rotylenchulus reniformis Linford & Oliveira, reniform nematode, '281'.

Sclerotium rolfsii Sacc., southern blight, '281'.

POLYGONUM L.

POLYGONACEAE

(1) *P. capitatum* Ham. ex Don

(2) *P. glabrum* Willd., kamala

(3) *P. punctatum* Ell.

(4) *P.* sp.

Puccinia polygoni-amphibii Pers., rust, on (2) and (4): '250'.

POLYGONUM (cont'd)

Rhizoctonia sp., root rot, on (1): '281'.

Ustilago utriculosa (Nees) Tul., smut, on (2): '216', and (3): '225'.

POLYPODIACEAE

(1) plants undetermined to genus

Helotium cremoneum Cash, on dead plants, '39'.

Pezizella chrysostigma (Fr.) Sacc., '39'.

POLYPODIUM L.

POLYPODIACEAE

(1) *P. phymatodes* L., maile-scented fern, lau'a

Aphelenchoides fragariae (Ritz.-Bos) Christie, foliar nematode, '239'.

POLYSCIAS J.R. & J.G.A. Forst.

ARALIACEAE

(= *Nothopanax* Miq.)

(1) *P. fruticosa* (L.) Harms

(2) *P. guilfoylei* (Bull.) Bailey, panax

Colletotrichum gloeosporioides (Penz.) Sacc., anthracnose, on (1): '281'.

Diaporthe sp., on dead and dying branches of (2): '251'.

Diplodia natalensis Pole, Evans, on (1): '251'.

Erwinia ?carotovora (L.R. Jones) Holland, bacterial soft rot, on (1): '281'.

Meloidogyne sp., root-knot nematode, on (2): '281'.

Pythium splendens Braun, root rot, on (2): '281'.

P. sp. on (1): '281'.

Rhizoctonia (solani) Kuehn, root rot, on (2): '225'.

POLYSCIAS (cont'd)

R. sp., root rot, on (2): '281'.

Rotylenchulus reniformis Linford & Oliveira, reniform nematode, on (2): '167', '281'.

Xanthomonas campestris pv. *hederæ* (Arn.) Dows., bacterial leafspot, on (1) and (2): '281'; see '188'.

Ringspot virus on (1): '198'.

POLYSTICHUM Roth

ASPIDIACEAE

(1) *P. adiantiforme* (Forst.) J.Sm., leather holly fern

Cylindrocladium pteridis Wolf, leafspot, '281'.

Helicotylenchus sp., spiral nematode, '281'.

Paratylenchus sp., pin nematode, '281'.

Pythium sp., root rot, '281'.

Rhizoctonia sp., root rot, '281'.

POPULUS L.

SALICACEAE

(1) *P. sp.*, cottonwood

Pythium sp., root rot, '281'.

PORTULACA L.

PORTULACACEAE

(1) *P. grandiflora* Hook., moss rose

(2) *P. lutea* Soland. ex Forst.

(3) *P. oleracea* L., purslane

Dichotomophthora portulacæ Mehr. & Fitzp. ex M.B. Ellis, on (1) and (2): '278', and on (3): '195'.

Helminthosporium ?portulacæ Rader, leaf and stem blight, on (3): '281'.

PORTULACA (cont'd)

Meloidogyne incognita (Kofoid & White) Chitwood, root-knot nematode, on (1): '281'.

M. sp., on (3): '278'.

Paratylenchus elachistus Steiner (as *P. minutus* Linford), pin nematode, on (3): '278'.

Rhizoctonia sp., root rot, on (3): '281'.

Rotylenchulus reniformis Linford & Oliveira, reniform nematode, on 93): '167'.

PORTULACARIA Jacq.

PORTULACACEAE

(1) *P. afra* Jacq., jade tree

Helicotylenchus sp., spiral nematode, '119'.

Meloidogyne incognita (Kofoid & White) Chitwood, root-knot nematode, '119'.

Rhizoctonia sp., root rot, '281'.

Scutellonema brachyurus (Steiner) Andrassy, nematode, '119'.

POTHOS L.

ARACEAE

(1) *P. sp*

Leptothyrium pothi Weedon, '250'.

Phyllosticta aricola Bubak, '250'.

P. pothicola Weedon, '250'.

POUTERIA Aubl.

SAPOTACEAE

(1) *P. dulcifica* (Schum & Thonn.) Baehni

Cylindrocladium pteridis, collar rot, '281'.

PRITCHARDIA Seem. & H. Wendl. ex H. Wendl. PALMAE

(1) *P. martii* H. Wendl.

(2) *P. sp.*

Helicotylenchus sp., spiral nematode, on (2): '119'.

Melanographium cookei M.B. Ellis, a saprophyte on (2): '282'.

Meliola lyoni Stevens, on (1): '15'.

M. palmicola Winter, black mildew, on (2): '90', '92', '96'.

Mollisia cinerea (Batsch) Karst., on (2): '39'.

Tylenchorhynchus sp., stunt nematode, on (2): '119'.

PROSOPIS L.

LEGUMINOSAE

(1) *P. pallida* (Humb. & Bonpl. ex Willd.) HBK. (as *P. chilensis* (Mol.)
Stuntz.), kiawe, algarroba

(2) *P. sp.*

Cassytha filiformis L., parasitic vine, on (1): '281'.

Diaporthe sp., on dead and dying branches of (2): '251'.

Phoma musae Carp., on (1): '28'.

P. sp., black pod spot, on (2): '284'.

Physalospora mutila (Fr.) N.E. Stevens, on branches of (2): '251'.

P. obtusa (Schw.) Cke., on (2): '251'.

Rhytidhysterium prosopidis Peck, on (1): '250'.

Rotylenchulus reniformis Linford & Oliveira, reniform nematode, on (1): '167'.

Sphaeropsis gouldiae Stev. & Plunkett, on (2): '251'.

S. malorum Peck, on (2): '251'.

Trybliidiella rufula (Spreng.) Sacc., on dead (1): '39'.

PROTEA L.

PROTEACEAE

- (1) *P. barbigera* Meissn.
- (2) *P. cynaroides* (L.) L.
- (3) *P. laurifolia* Buek. ex Meissn
- (4) *P. minor* Compton
- (5) *P. nerifolia* R. Br.
- (6) *P. nutans* Poir ex Steud.
- (7) *P. repens* Thunb.
- (8) *P. roupelliae* Meissn.
- (9) *P. scolymoecephala* Reichard
- (10) *P. susannae* Phillips
- (11) *P. sp.*

Botrytis cinerea Pers. ex Fr., shoot and flower blight, on (6): '49', '281'.

Meloidogyne incognita (Kofoed & White) Chitwood, root-knot nematode, seedlings of (2), (3), (4), (5), (7), (8), (9), (10) resistant: '51'.

M. sp., on (11): '281'.

Phoma sp., dieback, on (11): '281'.

Phytophthora cinnamomi Rands, root rot, on (2) and (11): '46', '281'.

Pythium sp., root rot, on (11): '281'.

Rhizoctonia sp., root rot, on (11): '281'.

PRUNELA L.

LABIATAE

- (1) *P. vulgaris* L., self-heal

Rhizoctonia sp., root rot, '281'.

PRUNIS L.

ROSACEAE

- (1) *P. amygdalus* Batsch (= *P. dulcis* (Mill.) D.A. Webb), almond
- (2) *P. cerasifera* Ehrh., cherry plum
- (3) *P. domestica* L., plum
- (4) *P. persica* (L.) Batsch, peach

Armillaria mellea (Vahl ex Fr.) Kummer, root rot, on (3) and (4): '159'.

Monilinia laxa (Aderh. & Ruhl.) Honey, brown rot, on (3) and (4): '225'.

M. sp., on (2): '281'.

Phyllosticta circumscissa Cke., leafspot, on (4): '250'.

Pythium sp., root rot, on (1): '281'.

Taphrina deformans (Berk.) Tul., peach leaf curl, on (4): '281'.

Tranzschelia discolor Tranz. & Litv. (syn.: *T. pruni-spinosae* (Pers.) Diet.), rust, on (4): '250'.

PSEUDOPANAX C. Koch

ARALIACEAE

- (1) *P. adiantifolium*

Glomerella ?cingulata (Stonem.) Spaud & v. Schrenk, anthracnose, '281'.

PSEUDOTSUGA Carr.

PINACEAE

- (1) *P. menziesii* (Mirb.) Franco, Douglas fir

Phytophthora sp., root rot and damping-off, '225'.

Pythium ultimum Trow, root rot, '225'.

Rhizoctonia (solani) Kuehn, root rot, '225'.

PSIDIUM L.

MYRTACEAE

(1) *P. cattleianum* Sabine, strawberry guava

(2) *P. guajava* L., guava

(3) *P. sp.*

Armillaria aspreta Berk., on branches of (3): '15'.

Auricularia auricular (Hooker) Underwood, on (2): '15'.

Aschersonia marginata Ell. & Ev., (3): '250'.

Botryosphaeria ribis Gross. & Duggar var. *chromogena* shear, N.E. Stev. & M.S. Wilcox, on branches of (2): '251'.

Cassytha filiformis L. parasitic vine, on (2): '225'.

Cephaleuros virescens Kunze, algal spot, on (2): '225'.

Crepidotus nephrodes (Berk. & Curt.) Sacc., on (2): '15'.

Cuscuta sandwichiana Choisy, dodder, on (1) and (2): '225'.

Diaporthe sp., on dead and dying branches of (2): '251'.

Gliocephalotrichum bulbilium J.J. Ellis & Hesseltine, on decaying wood of (2): '15'.

Gloeosporium sp., anthracnose, on (2): '27'.

Glomerella cingulata (Stonem.) Spauld & v. Schrenk, anthracnose, on (2): '284'.

Guignardia sp., blossom-end rot, on (2): '281'.

Limaciniella psidii Mendoza, on (2): '278'.

Mucor hiemalis Wehmer, soft rot, on (2): '153', '281'.

Orbilia leucostigma on wood of (2): '39'.

Phoma sp., blossom-end rot, on (2): '281'.

Phomopsis psidii, fruit spot, on (2): '281'.

Phytophthora cinnamomi Rands, root rot, on (1): '281'.

Rhizoctonia sp., root rot, on (2): '281'.

PSIDIUM (cont'd)

Rhizopus nigricans (Ehrenb.) Cda., blossom-end rot, on (2): '281'.

R. stolonifer (Ehrenb. ex Fr.) Vuill., rhizopus fruit rot, on (2): '208'.

Trametes corrugata Pers. ex Bres., wood rot, on (2): '284'.

Trichopeltis reptans Speg., on (2): '250'.

Triscelophorus monosporus Ingold, on leaf litter of (1) and (2): '89'.

PSYCHOTRIA L.

RUBIACEAE

(=*Straussia* Gray)

(1) *P. hawaiiensis* (Gray) Fosb. var. *hillebrandii* (Rock) Fosb. (=S. h. Rock),
kopiko, opiko.

(2) *P. kuduana* (Cham. & Schlecht), Fosb. (=S. k. (C. & S.) Gray)
Kopiko kea

(3) *P. marineana* (Cham. & Schlecht.) Forb. (=S. m. (C. & S.) Gray)

(4) *P. sp.* (=S. sp.)

Amazonia polypoda Syd. (as *A. psychotriae* (P. Henn.) Theiss.), black mildew, on
(1), (2), (3), and (4): '96', '250'.

Armillaria mellea (Vahl ex Fr.) Kummer, root rot, on (3): '159'.

Chaetothyrium straussiae Mendoza, on (3): '250'.

Lyonella neurophila Syd., on (4): '250'.

Meliola bidentata Cke., black mildew, on (1): '281'; probably one of the two
species below.

M. kaduae Stevens, on (2): '250', and on (7): '96', '250'.

M. straussiae Hansf., on (4): '96'.

Phytophthora cinnamomi Rands, root rot, on (1): '146'.

PSYCHOTRIA (cont'd)

Septobasidium sp., on scale insects on (3): '282'.

Trichopeltis reptans Speg., on (4): '250'.

Trichothallus hawaiiensis Stevens, on (1): '250'.

PTERIDIUM Gleditsch ex Scop.

DENNSTAEDTIACEAE

(1) *P. aquilinum* (L.) Kuhn, bracken

Uredinopsis aspera Faull (= *U. hashiokai* Hiratsuka.f.), rust, (as *U. pteridis* Diet. & Holw. in '237'), II on (1); '284'.

PTERIS L.

PTERIDACEAE

(1) *P. sp.*

Pythium sp., root rot, '281'.

PTYCHOSPERMA Labill.

PALMAE

(1) *P. macarthurii* (H. Wendl.) Nichols, Macarthur palm

Rhizoctonia sp., root rot, '281'.

PUNICA L.

PUNICACEAE

(1) *P. granatum* L., pomegranate

(2) *P. granatum* L. var. *nana* L., double-flowering pomegranate

Cercospora punicae P. Henn., leafspot, on (1): '250'.

Rhizoctonia sp., on (2): '281'.

PYRUS L.

ROSACEAE

(1) *P. communis* L., pear

(2) *P. sp.*

PYRUS (cont'd)

Cercospora mali Ell. & Ev., leafspot, on (1): '281'.

Entomosporium maculatum Lev. (=E. mespili (DC. ex Duby) Sacc.), leaf blight,
on (2): '281'.

Rhizoctonia sp., root rot, on (1): '281'.

Rotylenchulus reniformis Linford & Oliveira, reniform nematode, on (1): '281'.

RAILLIARDIA Gaud.

COMPOSITAE

(1) *R.* sp.

Echidnodella raillardiae Stevens, '250'.

RAPHANUS L.

CRUCIFERAE

(1) *R. sativus* L., radish

(2) *R. sativus* L. var. *longipinnatus* Bailey, daikon

(3) *R.* sp.

Albugo candida (Pers.ex Lev.) Kuntze, white rust, on (1): '102', and (2): '225'.

Alternaria brassicae (Berk.) Sacc., gray leafspot, on (1): '281'.

Aphanomyces sp., root rot, on (1): '281'.

Cercospora sp., (=C. ?*cruciferarum* Ell. & Ev.), leafspot, on (3): '212'.

Meloidogyne sp., root-knot nematode, on (1) and (2): '278'.

Paratylenchus elachistus Steiner (as *P. minutus* Linford), pin nematode, on (1):
'168'.

Peronospora parasitica (Pers. ex Fr.) Fr., downy mildew, on (2): '225'.

Plasmodiophora brassicae Wor., club root, on (2): '225'.

Pratylenchus sp., lesion nematode, on (1): '281'.

RAPHANUS (cont'd)

Pythium sp., root rot, on (1): '281'.

Rotylenchulus reniformis Linford & Oliveira, reniform nematode, on (91): '167'.

Mosaic virus on (3): '215'.

Spotted wilt virus on (3): '278'.

Turnip mosaic virus on (1): '281'.

RENANTHERA Lour.

ORCHIDACEAE

(1) *R. coccinea* Lour.

(2) *R. sp.*

Cymbidium mosaic virus on (1) and (2): '281'.

Odontoglossum ringspot virus on (2): '281'.

RHAPHIOLEPIS Lindl.

ROSACEAE

(1) *R. indica* (L.) Lindl.

Entomosporium maculatum Lev. (*E. mespili* (DC. ex Duby) Sacc.), leaf blight, '281'; anamorph of *Diplocarpon mespili* (Sorauner) Sutton.

RHAPIS L.f.

PALMAE

(1) *R. excelsa* (Thumb.) Henry, bamboo palm

(2) *R. sp.*

Cercospora sp., leafspot, on (2): '281'.

Helminthosporium sp., leafspot, on (1): '281'.

Xanthomonas sp., bacterial leafspot, on (2): '281'.

RHEUM L.

POLYGONACEAE

(1) *R. rhaponticum* L., rhubarb

RHEUM (cont'd)

Ascochyta rhei Ell. & Ev., (syn.: *Phyllosticta strominella* Bres.), leafspot, '215'.

Rhizoctonia (solani) Kuehn, '225'.

RHIZOPHORA L.

RHIZOPHORACEAE

(1) *R. mangle* L.

Cytospora sp., on prop roots, '15'.

Didymosphaeria enalia Kohlm., on wood, '15'.

Heliascus konaloanus Kohlm., on wood, '15'.

Hydronectria tethys J. & E. Kohlm., on bark and seedlings, '15'.

Lignincola laevis Hoehnk, on seedlings, '15'.

Lulworthia sp., on bark, '15'.

Metasphaeria australiensis A. & J. Cribb, on prop roots, '15'.

Robillarda rhizophorae Kohlm. on roots, '15'.

RHODODENDRON L.

ERICACEAE

(1) *R. indicum* (L.) Sweet, azalea

(2) *R. sp.*

Botrytis cinerea Pers. ex Fr., blossom blight, on (1): '281'.

Cephaleuros virescens Kunze, parasitic alga, on (2): '281'.

Cylindrocladium hastatum, twig blight, on (1): '281'.

Exobasidium vaccinii Wor., leaf and stem gall, on (1): '281'. and (2): '225'.

Meloidogyne sp., root-knot nematode, on (1): '281'.

Ovulinia azaleae Weiss, petal blight, on (1): '188'.

Phytophthora cinnamomi Rands, root rot, on (2): '188'.

RHODODENDRON (cont'd)

Pythium sp., root rot, on (1): '281'.

Rhizoctonia sp., root rot, on (2): '281'.

Septoria azaleae Vogl., leaf scorch, on (2): '225'.

Tylenchorhynchus sp., stunt nematode, on (2): '281'.

RHUS L.

ANACARDIACEAE

(1) *R. chinensis* Mill. (= *R. semialata* Murr.), sumac

Dasyscypha citrino-alba (Penz. & Sacc.) Cash, on wood, '39'.

RHYNCHELYTRUM

GRAMINEAE

(1) *R. reptans* (Willd.) C.E. Hubb, (= *Trichlaena* r. (Willd.) Hitchc.

(2) *R. aurea* (Nees), Natal redtop

Cassytha filiformis L., parasitic vine, on (1): '225'.

Meloidogyne sp., root-knot nematode, on (1): '278'.

Paratylenchus elachistus Steiner (as *P. minutus* Linford), pin nematode, on (1): '168'.

RHYNCHOSPORA Vahl.

CYPERACEAE

(1) *R. lavarum* Gaud.

(2) *R. thyrsoides* Nees & Meyen (as *R. sclerioides* Hook. & Arn.)

Meliola argentina Speg. (as *M. cyperi* Pat.), on (2): '96', '250'.

Uromyces rhynchosporae Ell., rust, on (1): '250'.

RHYNCHOSTYLIS Blume

ORCHIDACEAE

(1) *R. sp.*

RHYNCHOSTYLIS (cont'd)

Cymbidium mosaic virus on (1): '281'.

RICHARDIA L.

RUBIACEAE

(1) *R. brasiliensis* Gomez (midsdet. as *R. scabra* (L.) St. Hil), Mexican clover

Alternaria sp., leafspot, '225'.

Meloidogyne sp., root-knot nematode, '278'.

Paratylenchus elachistus Steiner (as *P. minutus* Linford), pin nematode, '168'.

Phytophthora cinnamomi Rands, root rot, '194'.

P. palmivora Butl., root rot, '194'

P. parasitica Dast., root rot, '194'.

Rotylenchulus reniformis Linford & Oliveira, reniform nematode, '167'.

Spotted wilt virus, '237'.

RICINUS L.

EUPHORBIACEAE

(1) *R. communis* L., castor bean

Botryosphaeria ribis Gross. & Duggar var. *chromogena* Shear, N.E. Stev. & M.S. Wilcox, on stems, '251'.

Diaporthe sp., on dead and dying branches, '251'.

Phytophthora cinnamomi Rands, root rot, '194'.

*P. manoana*² Sid., root rot, '194'.

P. palmivora Butl., root rot, '194'.

Pythium vexans de Bary, root rot, '246'.

Rhizoctonia sp., root rot, '281'.

² Authors do not consider this a valid species

RICINUS (cont'd)

Xanthomonas campestris pv. *ricini* (Yoshi & Takimoto) Dows., bacterial leafspot, '281'.

ROCKIA Heimerl

NYCTAGINACEAE

(1) *R. sandwiciensis* (Hbd.) Heimerl (= *Bougainvillea* S. Hbd.)

Echidnodes pisoniae Stev. & Ryan, '237'; note: also listed under *Pisonia*. *Rockia* is a monotypic genus, segregated from *Pisonia*.

ROLLANDIA Gaud.

COMMELIACEAE

(1) *R. crispa* Gaud. (= *R. lanceolata* Gaud.)

(2) *R. humboldtiana* Gaud.

(3) *R. racemosa* Hbd.

Limaciniopsis rollandiae Mendoza, on (2) or (3): '250', '225'.

Septoria rollandiae Stev. & Ryan, on (1): '250'.

ROSA L.

ROSACEAE

(1) *R. odorata* Sweet, tea rose

(2) *R. sp.*

Agrobacterium tumefaciens (E.F.Sm. & Towns.) Conn, crown gall, on (1); '281'.

Botrytis cinerea Pers. ex Fr., blossom blight, on (1): '281'.

Cercospora rosicola Pass., leafspot, on (2); '281'.

Coniothyrium sp., stem canker, on (1): '281'.

Diplocarpon rosae Wolf (anamorph: *Marssonina* r. (Lib.) Lind), black spot, on (1): '281', and (2); '215'.

Mycosphaerella rosigena (Ell. & Ev.) Lindau, leafspot, on (2): '250'.

ROSA (cont'd)

Oidium sp., powdery mildew, on (1): '281', and (2): '250'.

Phragmidium mucronatum (Pers.) Schlecht. (as *P. disciflorum* tode ex James), rust, on (1): '281', and (2): '250'.

P. speciosum (Fr.) Cooke, rust, on (1): '281'.

Phyllosticta sp., leafspot, on (2): '215'.

Pythium sp., root rot, on (1): '281'.

Sphaerotheca pannosa (Wallr. Ex Fr.) Lev., powdery mildew, on (2): '29'.

Mosaic virus on (1): '281'.

ROSMARINUS L.

LABIATAE

(1) *R. officinalis* L., rosemary

Rhizoctonia sp., root rot, '281'.

ROYSTONEA O.F. Cook

PALMAE

(1) *R. elata* (Bart.) Harper (= *R. regia* (HBK.) Cook), royal palm

Macrophomina phaseolina (Tassi) Goid. (= *Sclerotium bataticola* Taub.), charcoal rot, '281'.

Thielaviopsis ?basicola (Berk. & Br.) Ferr., black root rot, '281'.

RUBUS L.

ROSACEAE

(1) *R. hawaiiensis* Gray, 'akala

(2) *R. rosaefolius* Sm., thimbleberry

(3) *R. villosus* Ait.

(4) *R. sp.*

Anomothallus erraticus Stevens, on (1): '281'.

RUBUS (cont'd)

Appendiculella calostroma (Desm.) Hoehn. (as *Irene puigiarrii* (Speg.) Doidge), black mildew, on (1): '96', '250'.

Clypeosphaeria hendersonia (Ell.) Sacc., on dead canes of (4); '284'.

Cuscuta sandwichiana Choisy, dodder, on (2): '225'.

Gnomonia ?rubi Rehm, twig tip blight, on (2): '281'.

Kuehneola uredinis (Link) Arth., rust, on (3); '250'.

Phytophthora cinnamomi Rands, root rot, on (2): '146'.

Rhizoctonia sp., root rot, on (4); '281'.

Stictis hawaiiensis Cash, on (2); '39'.

Trichothallus hawaiiensis Stevens, on (1); '250'.

RUMEX L.

POLYGONACEAE

(1) *R. acetosela* L., sheep sorrel

(2) *R. crispus* L., yellow dock

Cercospora sp. (= *C. ?acetosella* Ellis), leafspot, on (1) and ?(2): '213'.

SACCHARUM L.

GRAMINEAE

(1) *S. officinarum* L., sugar cane

Allantospora radicola Wakker, on dead plants, '44'; (= *Cylindrocarpon* sp., fide Booth, C.M.I. Papers 104. 1966).

Aspergillus sp., mold, '252'.

Axonium sp., nematode, '197'.

Capnodium sp., '171'.

Ceratocystis adipose (Butl.) Moreau, black rot, '284'.

C. keopkei Kruger, fide Chupp, yellow spot, 48:248.

SACCHARUM (cont'd)

C. paradoxa de Seynes Moreau, Pineapple disease, '58'.

Cercospora longipes Butl. (*C. koepkei* Kruger, fide Chupp, 48:248), brown spot, '280'.

C. ?vaginae Kruger, red spot of leaf-sheath spot, '250'.

Chytridium sp., on roots, '174', '284'.

Cladosporium herbarum (Pers.) Link ex S.F. Gray, on cut leaves, '252', '281'.

Clathrus columnatus Bosc. Stinkhorn, saprophyte on plant debris, '44', '284'.

Cochliobolus stenospilus (Drechs) Matsu & Yamamoto, telemorph of

Helminthosporium stenospilum, q.v. brown stripe, '32', '284'.

Colletotrichum falcatum Went, red rot, '44'.

Criconema sp., nematode, '197'.

Criconemoides sphaerocephalum Taylor, ring nematode, '239'.

C. sp. '117'.

Curvularia lunata (Wakker) Boedijn (anamorph of *Cochliobolus l.* Nelson & Haasis), on dead (1): '44'.

Cylindrocarpon radicicola Wr., '15'.

Dictyophora indusiata (Vent. ex Fr.) Fischer, stinkhorn, on debris, '44'.

D. sp. On dead (1): '59'.

Dimeriella sacchari (Breda de Haan) Hansford (= *Eriosphaeria sacchari* (B. de Haan) Went), red leafspot (purple spot), '284'.

Ditylenchus dipsaci (Kuehn) Filip., stem and bulb nematode, '117'.

Dolichodorus sp., nematode, '105'.

Fusarium moniliforme (Sheld.) Snyder & Hans., root rot, '162'; anamorph of *Gibberella fujikuroi*, q.v.

SACCHARUM (cont'd)

F. oxysporum Schlecht., '102'.

F. sp., '161'.

Gibberella fujikuroi (Saw.) Ito in Ito & Kimura, top rot, '252'.

G. fujikuroi (Saw.) "Wr." Var. *subglutinans* Edw., '252'.

Gnomonia iliau Lyon, leaf sheath and cane spot, '170', '284'.

Graphium ? *sacchari* Speg., leaf moid, '44'.

Helicotylenchus dihystra (Steiner) Sher (= *H. nannus* Steiner), spiral nematode, '100', '101'.

Helminthosporium sacchari (Brede de Haan) Butl.; (= *Cercospora s.* (B. de Haan).

H. stenospilum Drechs., brown stripe, '176', '284'.

Heterodera schachtii Schmidt, cyst nematode, '96'.

Himantia stellifera Johns., '15'.

Hormiactella sacchari J.R. Johnston, on dead leaves of '252'.

Ithyphallus rubicundus (Bosc) Fischer (= *Phallus r.* Bosc), stinkhorn on debris, '58'.

Leptosphaeria sacchari Breda de Haan, ringspot, on leaves '59'.

Longidorus laevicapitatus Williams, needle nematode, '119'.

L. sp., '118'.

Lophodermium sacchari Lyon, on dead leaves, '172'.

Macrosporium graminum Cke., '252'.

Marasmius sacchari Wakker, on roots and stem bases, '58'.

Melanconium sacchari Masee apud Speg. (= *Phaeocystostroma s.* (Ell. & Ev.) Sutton), rind disease, '44'.

M. sp., '59'.

SACCHARUM (cont'd)

Meloidogyne incognita Chitwood var. *acrita* Chitwood, root-knot nematode, '139'.

M. sp., '59'.

Microspora northii Carp., & Bom., on juice, '36'.

Monilia sitophila (Mont.) Sacc., on dead (1): '44'; anamorph of *Neurospora sitophila*, q.v.

Mycosphaerella striatiformans Cobb, Sacc. & Tratt., leaf splitting disease, on leaves, '58', '284'.

Nectria sp., on dead tissues, '44'.

Neurospora sitophila Shear & Dodge, on dead tissues, '44'.

Nigrospora oryzae (Berk. & Curt.) Petch (syn.: *Basisporium gallarum* Moll.), black mold, '44'; anamorph of *Khuskia oryzae* Hudson.

Odontia saccharicola Burt, on leaf sheaths, '44', '284'.

Papularia sphaerosperma (Pers. ex Lk.) Hoehn., on dead culms, '284' (= *Arthrinium s.* (Cda.) M.B. Ellis).

Paratylenchus elachistus Steiner (= *P. minutus* Linford), pin nematode, '139'.

P. sp., '186'.

Penicillium glaucum Link, blue mold, '258'.

P. sp., '258'.

Pestalotia sp., '279'.

Peziza sp., '279'.

Phallus rubicundus (Bosc) Fr. In a field, '15'.

Phyllosticta hawaiiensis Caum. (= *P. ?sorghina* Sacc.), *Phyllosticta* leafspot, '43', '284'.

Physalospora tucumanensis Speg. (= *?Colletotrichum falcatum* Went) red rot, '279', '284'.

Pleocyta sacchari (Massee) Petr. & Syd. (= *Phaeocytostroma s.* (Ell. & Ev.) B.C. Sutton), rind disease, '178'.

SACCHARUM (cont'd)

Paratylenchus brachyurus (Godfrey) Filip & Schuur. Stekh., '79'.

P. pratensis (de Man) Filip., lesion nematodes, '79'.

P. zeae Graham, '101'.

P. sp., '239'.

Pseudomonas rubrilineans (Lee et al.) Stapp., red stripe, on (1): '44'.

P. rubrisubalbicans (Christopher & Edgerton) Krasil'nikov, mottle stripe, '281'.

Puccinia melanocephala H. & P. Syd (= *P. erianthi* Padw. Et A. Khan), rust.

Pythium aphanidermatum (Edson) Fitzp., root rot, '31'.

P. arrhenomanes Drechsl., root rot, '243'.

P. artotrogus (Mont.) de Bary, '246'.

P. debaryanum Hesse, root rot, '243'.

P. graminicola Subr., '178'.

P. rostratum Butl, root rot, '243'.

P. splendens Braun, root rot, '243'.

P. sp., root rot, '243'.

Radopholus similes (Cobb) Thorne, burrowing nematode, '59'.

Rhizoctonia sp., basal stem, root and sheath rot, '44'.

Rhizopus sp., '279'.

Schizophyllum commune Fr., wound rot, '44'.

Sclerotium rolfsii Sacc., red rot of leaf sheath, '44'.

S. sp., '44'.

Stagonospora sacchari Lo & Ling, leaf scorch, '279'.

SACCHARUM (cont'd)

Strumella sacchari Cke., '44'.

Thielaviopsis ethacetica Went, parasitic '15'; anamorph of *Ceratocystis paradoxa* (Dade) Moreau.

T. paradoxa (de Seynes) Hoehn., "saprophytic": '15'.

Trichodorus christiei Allen, stubby-root nematode, '135'.

T. porosus Allen, '1'.

Tylenchorhynchus martini Fielding, stunt nematode, '119'.

T. sp., '117'.

Ustilago scitaminea H. & P. Sydow, smut, '281'.

Vermicularia graminicola (Ces.) Westd. (= *Colletotrichum g.* (Ces.) Wilson), on dead tissues, '180'.

Xanthomonas albilineans (Ashby) Dows., leaf scald, '68.

Xiphinema americanum Cobb, dagger nematode, '100'.

X. elongatum Schuur. Stekh. & Teunissend and *X. insigne* Loos, '119'.

X. insigne Loos, '119'.

X. truncatum Thorne, '117'.

X. sp., '197'.

Chlorotic streak virus, '177'.

Mosaic virus, '169'.

Ratoon stunting virus, '279'.

SADLERIA Kaulf.

BLECHNACEAE

(1) *S. sp.*

Dasyscypha sadleriae Stev. & Young, '250'.

SADLERIA (cont'd)

Lycoperdon sp., '26'.

Pezizella chrystostigma (Fr.) Sacc., '39'.

Stictis radiata Pers. ex Fr., '39'.

SAGITTARIA L.

ALISMATACEAE

(1) *S. sagittifolia* L., arrowhead

Cercospora sagittariae Ell. Kellerm (as *C. alismatis* Ell. Holw.), leafspot, '250'.

Colletotrichum sp., anthracnose, '281'.

Pestalotia sp., leafspot, '212'.

SAINTPAULIA Wendl.

GESNERIACEAE

(1) *S. ionantha* Wendl., African violet

Aphelenchoides besseyi Christie, foliar nematode, '239'.

Botrytis cinerea Pers. ex Fr., soft rot, '281'.

Phytophthora sp., root rot, '281'.

Rhizoctonia sp., root rot, '281'.

SALIX L.

SALICACEAE

(1) *S. babylonica* L., weeping willow

Rhizoctonia sp., root rot, '281'.

SALVIA L.

LABIATAE

(1) *S. coccinea* Juss. ex Murr., Texas sage

(2) *S. officinalis* L., common sage

Rhizoctonia sp., root rot, on (2): '281'.

Septoria salviae-pratensis Pass., leafspot, on (1): '250'.

SAMANEA (DC.) Merr.

LEGUMINOSAE

- (1) *S. saman* (Jacq.) Merr., money pod

Botryodiplodia sp., twig dieback, '281'.

Hypomyces haematococcus (Berk. & Br.) Wr., on bark, '284'.

Meloidogyne sp., root-knot nematode, '281'.

Phyllosticta pithecolobii E. Young, '250'.

Pythium sp., root rot, '250'.

SANDERARA Hort.

ORCHIDACEAE

- (1) *S.* sp.

Cymbidium mosaic virus, '281'.

SCAEVOLA L.

GOODENIACEAE

- (1) *S. chamissoniana* Gaud.

- (2) *S. glabra* Hook. & Arn.

- (3) *S. mollis* Hook. & Arn.

- (4) *S. sericea* Vahl, beach naupaka

- (5) *S. taccada* (Gaertn.) Roxb. (= *S. frutescens* Drause)

- (6) *S.* sp.

Amazonia psychotriae (P. Henn.) Theiss., black mildew, on (2) and (6): '250', but apparently later determined as *A. scaevolae* Hansf., on (2) and (6): '90', '96'.

Calothyriopeltis scaevolae Stev. & Ryan, on (6): '250', a *nomen confusum*, fide Petrak, Sydowia 5: 183-4. 1951.

Calloriopsis gelatinosa (Ell. & Mart.) Sacc., on (6): '39'.

Cercospora sp., leafspot, on (4): '281'.

Meliola scaevolicola (Stev.) Hansf. (= *Irene* s. Stevens), on (1) and (3): '96', '250', and on (2): '250'.

SCAEVOLA (cont'd)

Mycosphaerella scaevolae Stev. & Young, on (1), (2) and (3): '250'.

Phyllosticta scaevolae Ell. & Ev., on (1): '250'.

Pleospora scaevolae Stev. & Young, on (1), (2) and (3): '250'.

Rhizoctonia sp., root rot, on (4) and (5); '281'.

Sarcosoma godronioides Rick (=Bulgaria g. (Rick) Seaver), on wood of (6): '39'.

Trichothallus hawaiiensis Stevens, on (6): '250'.

SCHEFFLERA J.R. & J.G.A. Forst

ARALIACEAE

(1) *S. actinophylla* (Endl.) Harms. (=Brassaia a. Endl.), umbrella tree

(2) *S. arboricola*, Dwarf Schefflera

(3) *S. sp.*

Alternaria panax, leafspot, on (1): '275'.

Cephaleuros virescens Kunze, parasitic alga, on (1) and (2): '281'.

Pythium sp., root rot, on (3); '281'.

Rhizoctonia sp., root rot, on (2); '281'.

Wiesneriomyces javanicus Koorders, on leaf litter of (3), etc.: '92'.

SCHINUS L.

ANACARDIACEAE

(1) *S. molle* L.

(2) *S. terebinthifolius* Raddi, Christmas-berry tree

Botryosphaeria ribis Gross. & Duggar var. *chromogena* Shear, N.E. Stev. & M.S.

Wilcox. on twigs of (1): '15', and (2): '281'.

SCHINUS (cont'd)

Cassytha filiformis L., parasitic vine, on (2): '225'.

Cuscuta sandwichiana Choisy, dodder, on (2): '225'.

Diaporthe sp., on dead and dying branches of (1): '251', also on (2): '15'.

Rotylenchulus reniformis Linford & Oliveira, reniform nematode, on (2): '167'.

SCHLUMBERGERA Lemaire

CACTACEAE

(1) *S. bridgesii* (Lem.) Loefgren, Christmas cactus

(2) *S. truncate* (Haw.) Moran

Gloeosporium sp., anthracnose, on (1): '281'.

Pythium aphanidermatum (Edson) Fitzp., crown and root rot, on (2): '281'.

P. sp., root rot, on (1); '281'.

Rhizoctonia sp., crown and root rot, on (1): '281'.

SCHOMBOCATTLEYA Host.

ORCHIDACEAE

(1) *S.* sp.

Cymbidium mosaic virus, '281'.

SCHOMBURGKIA Lindl.

ORCHIDACEAE

(1) *S.* sp.

Cymbidium mosaic virus, '281'.

SCINDAPSUS Schott

ARACEAE

(1) *S. aureus* (Lindl. Ex Andre) Engl., pathos

Cephaleuros virescens Kunze, parasitic alga, '281'.

Gloeosporium sp., anthracnose, '281'.

SCINDAPSUS (cont'd)

Melanotus flavolivens (Berk. & Curt.) Singer, '15'.

Pythium sp., root rot, '281'.

Radopholus sp., burrowing nematode, '281'.

Rhizoctonia sp., crown and root rot, '281'.

SCIRPUS L.

CYPERACEAE

(1) *S. paludosus* A. Nels.

(2) *S.* sp.

Meliola argentina Speg., black mildew, on (2); '284'.

Uromyces lineolatus (Desm.) Schroeter (syn.: *U. scirpi* Burr.), rust, on (1): '250'.

SECHIUM P. Browne

CUCURBITACEAE

(1) *S. edule* (Jacq.) Sw., chayote

Oidium sp., powdery mildew, '225'.

SEDUM L.

CRASSULACEAE

(1) *S. lineare* Thunb. var. *variegatum* Hort., stonecrop

Rhizoctonia sp., root rot, '281'.

SENECIO L.

COMPOSITAE

(1) *S. mikanooides* Otto, grape ivy

(2) *S.* sp.

Cylindrocladium sp., collar and root rot, on (1): '281'.

Meloidogyne sp., root knot nematode, on (2); '284'.

SEQUOIA Endl. TAXODIACEAE

(1) *S. sempervirens* (D. Don) Endl., redwood

Pythium sp., root rot, '281'.

SEQUIADENDRON Buckholz TAXODIACEAE

(1) *S. giganteum* (Lindl.) Buchholz, giant redwood

Phytophthora sp., '225'.

Pythium ultimum Trow, damping-off and root rot, '225'.

SERENOA Hook.f. PALMAE

(=? *Acoelorrhaphe* H. Wendl.)

(1) *S.* sp.

Meliola palmicola Wint., black mildew. '284'.

SESBANIA Scop. LEGUMINOSAE

(1) *S. grandiflora* (L. Poir. (= *Agati* g. (L.) Desv.), sesban

(2) *S. tomentosa* Hook. & Arn., 'ohai

Heterodera trifolii (Goffart) Oostenbrink, oyst nematode, on (1): '120'.

Pythium sp., root rot, on (2): '281'.

SESUVIUM L. AIZOACEAE

(1) *S. portulacastrum* (L.) L., 'akulikuli

Helicotylenchus sp., spiral nematode, '281'.

SETARIA Beauv. GRAMINEAE

(1) *S. italica* (L.) Beauv., foxtail millet

(2) *S. verticillata* (L.) Beauv., bur bristlegrass

SETARIA (cont'd)

(3) *S. viridis* (L.) Beauv., green bristle grass

?*Exserohilum turcicum* (Pass.) Leonard, leafspot, on (2): '281'.

Helicotylenchus dihystera (Steiner) Sher (as *Tylenchus spiralis* Cassidy), spiral nematode, on (1): '284'.

Meloidogyne sp., root-knot nematode, on (2): '278', and (3): '284'.

Pratylenchus pratensis (de Man) Filip., lesion nematode, on (2): '278'.

Puccinia substriata Ell. & Barth., rust, on (2): '188'.

Sclerospora graminicola (Sacc.) Schroet., downy mildew, on (1): '284'.

Uredo sp., rust, on (2): '188'.

Mosaic virus on (1) and (2): '284'.

SIDA L.

MALVACEAE

(1) *S. fallax* Walp., 'ilima

(2) *S. rhombifolia* L., Cuba jute

(3) *S. spinosa* L., prickly sida

(4) *S.* sp.

Colletotrichum malvarum (Braun & Casp.) Southw., leafspot, on (4): '250'.

Gloeosporium sp., anthracnose, on (1): '281'.

Leptothyrium sidae Stev. & Young, leafspot, on (2) and (3): '250'.

Meloidogyne sp., root-knot nematode, on (4): '284'.

Puccinia heterospora Berk. & Curt., rust, on (1): '281', and (4): '284'.

SIDA (cont'd)

P. malvacearum Bert., rust, on (1): '281', and (4): '284'.

SIDEROXYLON L.

SAPOTACEAE

(=? *Planchonelia* Pierre, p.p.)

(1) *S. rhyncospermum* Rock

(2) *S. sandwicense* (Gray) Benth. & Hook.

Meliola sideroxyli (*sideroxylonis*) Stevens, black mildew, on (2): '94', '96', '250'.

Pauahia sideroxyli Stevens, on (1); '237'; see Petrak (Sydowia 5:432. 1951) for revised description.

SINNINGIA Nees

GESNERIACEAE

(1) *S. speciosa* (Lodd.) Hiern, gloxinia

Botrytis cinerea Pers., ex Fr., blossom blight, '281'.

Phytophthora sp., crown rot, '281'.

Rhizoctonia sp., root rot, '281'.

SMILAX L.

SMILACACEAE

(1) *S. sandwicensis* Kunth, smilax

(2) *S.* sp.

Macrophoma smilacina (Pk.) Berl. & Vogl., on (1): '250'.

Phragmocapnias smilacina (Pk.) Berl. & Vogl., on (1): '250'.

Trichopeltis reptans Speg., on (1): '250'.

Trichothallus hawaiiensis Stevens, on (2): '250'.

SOLANUM L.

SOLANACEAE

(1) *S. carolinense* L., Carolina horsenettle

SOLANUM (cont'd)

- (2) *S. chaccense* Bitter, naranjilla
- (3) *S. melongena* L., eggplant
- (4) *S. nigrum* L., black nightshade
- (5) *S. nodiflorum* Jacp.
- (6) *S. pseudocapsicum* L., Jerusalem cherry
- (7) *S. seaforthianum* Andr., potato vine
- (8) *S. tuberosum* L., potato
- (9) *S. sp.*

Alternaria solani (Ell. & Martin) Jones & Grout, early blight, on (3): '281', and (8): '28'.

Botryodiplodia sp., on (2): '15'.

Cercospora atro-marginalis Atk., leaf blight, on (4): '280'.

C. melongenae Welles, leaf spot, on (3): '278'.

Erwinia carotovora subsp. *atroseptica* (van Hall) Dye, black heart or soft rot, on (3) and (8): '278'.

E. carotovora (L.R. Jones) Holland, bacterial soft rot, on (3): '178'.

Fusarium coeruleum (Lib.) Sacc., fusarium dry rot, on (8): '28'.

F. oxysporum Schlecht., fusarium wilt, on (8): '27'.

F. radicicola Wr., on (8): '15'.

F. solani (Mart.) Appel & Wr., fusarium dry rot, on (8): '181'.

F. solani f. *radicicola* (Wr.) Snyder & Hans., on (8): '27'.

F. sp., on (3): '212'.

Gibberella pulicaris (Fr.) Sacc., on dead fruits of (9): '250'.

SOLANUM (cont'd)

Helminthosporium solani Dur. & Mont., silver scurf, on (8): '281'.

Macrophomina phaseolina (Tassi) Goid. (= *Sclerotium bataticola* Taub.), charcoal rot, on (3): '281'.

Meloidogyne arenaria (Neal) Chitwood, root-knot nematode, on (8): '119'.

M. incognita (Kofoid & White) Chitwood, on (8): '119'.

M. sp., root-knot nematode, on (3), (4) and (8): '28'.

Phoma destructiva (Plowr.) Jamieson, leafspot, on (8): '206'.

P. sp., fruit rot, on (3): '281'.

Phomopsis vexans (Sacc. & Syd.) Harter, fruit rot, on (3): '250'.

Phyllosticta hortorum Speg., on (3): '28'.

Pseudomonas solanacearum E.F.Sm., bacterial wilt, on (3): '97', and (8): '213'.

Pythium arrhenomanes Drechsl., on (8): '243'.

P. debaryanum Hesse, on (8): '243'.

P. rostratum Butl., root rot, on (8): '243'.

P. sp., root rot, on (3): '281'.

Rhizoctonia solani Kuehn, rhizoctoniose, on (8): '27'.

R. sp., root rot, on (3) and (4): '281', and (8): '28'.

Rotylenchulus reniformis Linford & Oliveira, reniform nematode, on (3), (4) and (8): '167'.

Sclerotinia sclerotiorum (Lib.) de Bary, stem blight, on (3): '225'.

SOLANUM (cont'd)

Sclerotium rolfsii Sacc., southern blight, on (3): '127', and (8): '30'.

Septoria lycopersici Speg., leafspot, on (3): '212'.

Spongospora subterranean (Wallr.) Lagerh., powdery scab, on (8): '33'.

Streptomyces scabies (Thaxt.) Waks. & Henrici, common scab, on (8): '280'.

Verticillium albo-atrum Reinke & Berth., verticillium wilt, on (8): '280'.

V. sp., on (3): '213', and (8): '164'.

Crinkle mosaic virus on (8): '164'.

Cucumber mosaic virus on (1) and (4): '213', on (3): '284', and (7): '281'.

Leaf roll virus, on (8): '213'.

Leaf rolling virus, on (8): '213'.

Mild mosaic virus, on (8): '213'.

Mosaic virus, on (3): '181', and (8): '212'.

Mottle virus, on (4) and (8): '213'.

Potato virus Y on (5): '281'.

Rugose mosaic virus, on (8): '213'.

Spotted wilt virus, on (3) and (4): '237', and (8): '217'.

Tobacco mosaic virus on (6): '281'.

Veinbanding virus, on (8): '213'.

SOLEIROLIA Gaud. In Freyc.

URTICACEAE

(1) *S. repens* Kuntze (= *Helxine soleiroliae* Raf.)

Pythium sp., root rot, '281'.

SOLEIROLIA (cont'd)

Rhizoctonia sp., root rot, '281'.

SONCHUS L.

COMPOSITAE

(1) *S. oleracea* L., sowthistle

Alternaria sonchi Stevens, (= ? *A. sonchi* J.J. Davis), leafspot, '250'.

Meloidogyne sp., root-knot nematode, on (1): '278'.

Pratylenchulus pratensis (de Man) Filip., lesion nematode, on (1): '278'.

Rotylenchulus reniformis Linford & Oliveira, reniform nematode, on (1): '167'.

Septoria sonchifolia Cke., leafspot, on (1): '281'.

Spotted wilt virus, on (1): '281'.

SOPHORA L.

LEGUMINOSAE

(1) *S. chrysophylla* (Salisb.) Seem., mamane

(2) *S.* sp.

Candelariella vitellina (Ehrb.) Muell.-Arg., on bark of (1): '15'.

Nectria cinnabarina Tode ex Fr., twig blight, on (1): '281'.

Oidium sp., powdery mildew, on (1): '281'.

Phytophthora cinnamomi Rands, root rot, on (1): '146'.

SOPHROLAELIOCATTLEYA Hort.

ORCHIDACEAE

(1) *S.* sp

Cymbidium mosaic virus, '281'.

SORGHUM Moench

GRAMINEAE

- (1) *S. bicolor* (L.) Moench (= *S. vulgare* Pers.) sorghum
- (2) *S. caudatum* Stapf (= *S. vulgare* var. *c.* Bailey), feterita
- (3) *S. halepense* (L.) Pers., Johnson grass
- (4) *S. saccharatum* (L.) Pers. (= *S. vulgare* var. *s.* (L.) Boerl.), sweet sorghum
- (5) *S. sudanense* (Piper) Stapf (= *S. vulgare* var. *s.* Piper) Hitchc.), Sudan grass
- (6) *S. virgatum* (Hack.) Stapf, Tunis grass
- (7) *S. vulgare* Pers. var. *technicum* (Koern. & Weern.) Jav., broom corn
- (8) *S. sp.*

Colletotrichum falcatum Went., anthracnose, on (1): '281'.

C. graminicola (Ces.) G.W. Wilson, anthracnose, on (1) and (8): '281'.

Curvularia ?lunata (Wakker) Boedijn, leafspot, on (1): '281'.

Erwinia carotovora subsp. *carotovora* (L.R. Jones) Bergey, et al., bacterial soft rot, on (1): '281'.

Exserohilum rostratum (Drechs.) Leonard & Suggs, seedling blight, on (1) and (2): '281'.

E. turcicum (Pass.) Leonard & Sugs (anamorph of *Setosphaeria turcica*, q.v.), seedling blight and leafspot, on (1): '124', '281', on (2) and (7): '281'.

Fusarium moniliforme Sheldon, blight, on (1): '281'.

Helicotylenchus dihystra (Steiner) Sher (as *Tylenchus spiralis* Cassidy), Spiral nematode, on (1): '284'.

Helminthosporium sp., on (1): '280', '281'.

Meloidogyne sp., root-knot nematode, on (1): '278', and (4): '284'.

SORGHUM (cont'd)

Pseudomonas andropogonis (E.F. Sm.) Stapp, bacterial leafspot, on (1): '281'.

Puccinia purpurea Cke., rust, on (1): '23', on (3): '250', on (4): '279, and on (5): '180'.

Pythium sp., root rot, on (1): '281'.

Rhizoctonia sp., root rot, on (1): '281'.

Rotylenchulus reniformis Linford & Oliviera, reniform nematode, on (2): '167'.

Setosphaeria turcica (Luttrell) Leonard & Suggs (*Trichometasphaeria t.* Luttrell), leafspot, on (1): '95', '187'.

Sphacelotheca reiliana (Kuehn) Clint., head smut, on (7): '28'.

S. sorghi (Link) Clint., covered kernel smut, on (7): '250'.

Trichometasphaeria turcica Luttrell f.sp. *sorghi*, on (1): '22'; see *Setosphaeria t.*

Maize mosaic virus on (1): '21'.

Mosaic virus on (1): '284', on (5) and (6): '117'.

SPATHIPHYLLUM Schott

ARACEAE

(1) *S. sp.*

Colletotrichum sp., anthracnose, '281'.

Pythium sp., '281'.

Rhizoctonia sp., crown and root rot, '281'.

Sclerotium rolfsii Sacc., southern blight, '281'.

SPATHOGLOTTIS Blume

ORCHIDACEAE

(1) *S. plicata* Blume

(2) *S. sp.*

SPATHOGLOTTIS (cont'd)

Cassytha filiformis L., parasitic vine, on (1): '225'.

Cuscuta sandwichiana Choisy, dodder, on (1): '225'.

Helicotylenchus sp., spiral nematode, on (2): '281'.

Pythium splendens Braun, root rot, on (2): '133'.

Diamond spot virus, on (2): '198'.

SPHENOMERIS Maxon

LINDSAEACEAE

(1) *S. chusana* (L.) Copel, lace fern

Cercospora sp., fern blight, '281'.

SPINACIA L.

CHENOPODIACEAE

(1) *S. oleracea* L., spinach

Albugo ?occidentalis Wilson, white rust, '281'.

Cercospora sp. (=C. ?beticola Sacc.) leafspot, '213'.

Heterodera trifolii (Goffart) Oostenbrink, cyst nematode, '120'.

Peronospora effusa (Grev.) Rabenh., downy mildew, '215'.

Phytophthora drechsleri Tucker, root rot, '246'.

Pythium vexans de Bary, root rot, '246'.

Rhizoctonia sp., crown and root rot, '281'.

Cucumber mosaic virus, '212'.

SPOROBOLUS R.Br.

GRAMINEAE

(1) *S. africanus* (Poir) Robyns & Tourn., smut grass

(2) *S. indicus* (L.) R.Br. (syn.: *S. poiretii* (Roem. & Schult.) Kunth), West
Indies smut grass

SPOROBOLUS (cont'd)

Bipolaris ravenelii (Curt.) Shoemaker (= *Helminthosporium* r. Curtis) sooty spike,
on (1): '281', and (2): '215', '250'.

STACHYS L.

LABIATAE

(1) *S. arvensis* L., hedge nettle

(2) *S. sp.*

Meloidogyne sp., root-knot nematode, on (2): '284'.

Rotylenchulus reniformis Linford & Oliveira, reniform nematodes,, on (1): '167'.

Spotted wilt virus, on (1): '237'.

STACHYTARHETA Vahl

VERBENACEAE

(1) *S. dichotoma* (Ruiz & Pav.) Vah

(2) *S. jamaicensis* (L.) Vahl, Jamaica vervain

(3) *S. sp.*

Meoidogyne sp., root-knot nematode, on (1): '284'.

Phoma herbarum West., on (2): '278'.

Rhizootonia sp., root rot, on (2): '278'.

Mosaic virus on (3):P '284'.

STELECHOCARPUS (Blume)

ANNONACEAE

Hook. F. & Thoms.

(1) *S. burakol* Hook.f. & Thoms.

Cylindrocladium sp., root rot, '281'.

STENOTAPHRUM Trin.

GRAMINEAE

(1) *S. secundatum* (Walt.) Kuntze, St. Augustine grass

STENOTAPHRUM (cont'd)

Curvularia lunata (Wakker) Boedijn, leafspot, '281'.

Helminthosporium sp., leaf blight '281'.

Pyricularia grisea (Cke.) Sacc., gray leafspot, '188', '281'.

Puccinia stenotaphri Cumm., rust, '281'.

Rhizoctonia sp., brown patch, '281'.

Trichodorus sp., stubby-root nematode, '281'

Tylenchorhynchus sp., stunt nematode, '281'.

Uromyces ignobilis (Syd.) Arthur, rust, '188'.

STEPHANOTIS Thouars

ASCLEPIADACEAE

(1) *S. floribunda* Brongn., stephanotis

Meloidogyne sp., root-knot nematode, '281'.

Oidium sp., powdery mildew, '281'.

Rhizoctonia sp., crown and root rot, '281'.

STRAUSIA A. Gray: see *Psychotria* (Rubiaceae).

STRELITZIA Bank

STRELITZIACEAE

(1) *S. reginae* Banks, bird-of-paradise

Botrytis sp., ?blossom blight, '280'.

Fusarium sp., '215'.

Pseudomonas solanacearum E.F. Sm., '101'.

Pythium sp. Root rot, '281'.

Radopholus similis (Cobb) Thorne, burrowing nematode, '255', '281'.

STRONGYLODON Vodel

LEGUMINOSAE

- (1) *S. macrobotrys* Gray, jade vine

Colletotrichum gloeosporioides (Penz.) Sacc., stem blight, '225'.

Meloidogyne incognita (Kofoed & White) chitwood, root-knot nematode, '119'.

M. incognita var. *acrita* Chitwood, '280'.

Radopholus sp., burrowing nematode, '281'.

STYPHELIA J.E. Sm.

EPACRIDACEAE

- (1) *S. tameiamae* (Cham.) F. Muell., pukiawe

- (2) *S. sp.*

Armillaria mellea (Vahl ex Fr.) Kummer, wood rot, on (1): '159'.

Capnodium sp., sooty mold, on (2): '281'.

Phytophthora cinnamomi Rands, root rot, on (1): '146'.

SYAGRUS Mart.

PALMAE

- (1) *S. fulvitarsis*

Fusarium moniliforme Sheldon, '15'.

SYMPHYTUM L.

BORAGINACEAE

- (1) *S. officinale* L., common comfrey

Rhizoctonia sp., root rot, '281'.

SYNCARPIA Tenore

MYRTACEAE

- (1) *S. glomulifera* (Sm.) Niedz., turpine tree

Xylaria sp. or *Armillaria mellea* (Vahl ex Fr.) Kummer, '281'.

SYNGONIUM Schott

ARACEAE

- (1) *S. podophyllum* Schott, syngonium, *S. sp.*,
Ceratocytis fimbriata Ell. & Haklst., blight, on (1): '272'.
Colletotrichum falcatum Went, anthracnose, on (2): '281'.
Erwinia chrysanthemi Burk., bacterial leafspot, on (1): '281'.
E. herbicola (Leohnis) Dye, leafspot, on (1): P '202'.
Thielaviopsis ?basicola (Berk & Br.) Ferr., black root, on (1): '281'.
Xanthomonas carotovora pv. *dieffenbachia*, bacterial leafspot, on (1): '281'.

TABEBUIA Gomez ex DC.

BIGONIACEAE

- (1) *T. impetigensa* (Mart. Ex DC.) Standl.
(2) *T. pentiphylla* (L.) Hemsl.
Pythium sp., damping-off, on (2): '281'.
Rhizoctonia sp., crown and root rot, on (1): '281'.

TAGETES L.

COMPOSITAE

- (1) *T. erecta* L. African marigold
(2) *T. patula* L., French marigold
(3) *T. sp.*
Alternaria sp., leafspot, on (3) : '281'.
Aphelenchoides bessevi Christie, foliar nematode, on (3): '239'.
Paratylenchus elachistus Steiner (as *P. minutus* Linford), pin nematode, on (1):
'168'.
Pseudomonas solanacearum E.F. Sm., bacterial wilt, on (1): '281'.

TAGETES (cont'd)

Puccinia ?tagetica Diet. & Holw., rust, on (3): '281'.

Pythium sp., root rot, on (3): '281'.

Rhizootonia sp., crown and root rot, on(1):'281'.

Rotylenchulus reniformis Linfired & Oliveira, reniform nematode, on (1) and (2): P '167'.

TARAXACUM Weber

(1) *T. officinale* Weber, dandelion

Ditylenchus dipsaci (Kuehn) fillip., stem and bulb nematode,'165'.

Meloidogyne sp., root-knot nematode, '278'.

Puccinia taraxaci (Reb.) Plowr. (= *P. hieracii* (Schum.) Mart.),rust, '250'.

Spotted with virus on (1): '237'.

TECOMARIA (Endl.) Spach

BIGNONIACEAE

(1) *T. capensis* (Thunb.) Spach, cape honeysuckle

Rhizoctonia sp., crown and root rot, '281'.

TECTONA L.f.

VERBENACEAE

(1) *T. grandis* L.f., teak

Cercospora tectoniae Stevens, leafspot, '250'.

TELOSMA Coville

ASCLEPIADACEAE

(1) *T. cordata* (Burm.f.) Merr., Chinese violet

Telosma mosaic, '281'.

TEPHROSIA Pers..

LEGUMINOSAE

- (1) *T. vogelii* Hook.f.

Meloidogyne sp., root-knot nematode, '216'.

TERMINALIA L.

COMBRETACEAE

- (1) *T.* sp.

Mollisia petiolorum Cash, '39'.

TETRAGONIA L.

TETRAGONIACEAE

- (1) *T. tetragonoides* (Pallas) Kuntze (= *T. expansa* Murr.), New Zealand
spinach

Meloidogyne sp., root-knot nematode, '281'.

Mosaic virus, '281'.

TETRAPLASANDRA Gray

ARALIACEAE

- (1) *T. hawaiiensis* Gray

- (2) *T. meandra* (Hbd.) Harms

Seynesiopeltis tetraplasandrae Stev. & Ryan, on leaves of (1) and (2): '250'.

THEOBROMA L.

BYTTNERIACEAE

- (1) *T. cacao* L. cacao

Lasiodiplodia theobromae (Pat.) Griff. & Maubl. (syn.: *Diplodia t.* (Pat.), Nowell),
'281'; anamorph of *Physalospora rhodina* Berk. & Curt.

THESPESIA Soland. Ex Correa

MALVACEAE

- (1) *T.* sp.

Lophodermium sp., on leaves, '284'.

THRINAX Swart

PALMAE

(1) *T. sp.*

Meliola palmicola Wint., black mold, '284'.

THUJA L.

CUPRESSACEAE

T. occidentalis L., arborvitae, white cedar

T. sp.

Didymascella ?thujina (Durand) Mario, needle blight, on (2):
'281'.

Phytophthora cinnamomi Rands, root rot, on (1): '188'.

Pythium splendena Braun, root rot, on (2): '281'.

THUNBERGIA Retz

ACANTHACEAE

(1) *T. fragrans* Roxb., sweet clockvine or fragrant thunbergia

(2) *T. sp.*

Cercospora sp., leafspot, on (1): '225'.

Cucuta sandwichiana Choisy, dodder, on (1): '225'.

Meloidogyne sp., root-knot nematode, on (2): '281'.

TILLANDSIA L.

BROMELIACEAE

(1) *T. usneoides* (L.) L., Spanish moss

Pythium sp., root rot, '281'.

TITHONIA Desf. Ex Juss.

COMPOSITAE

(1) *T. diversifolia* (Hemsl.) Gray, tree marigold

(2) *T. rotundifolia* (Mill.) Blake

Aphelenchoides besseyi Christie, foliar nematode, on (1): '239'.

TITHONIA (cont'd)

Meloidogyne sp., root=knot nematode, on (2): '284'.

TOONA (End.) M. Roem

MELIACEAE.

(1) *T. ciliata* M. Roem. var *australis* (F. Muell.) A.DC., Australian red cedar

Phytophthora cinnamomi Rands, decline; (1) highly susceptible: '141'.

TORENIA L.

SCROPHULARIACEAE

(1) *T. fournieri* Linden ex Fourn., wishbone plant

Aphelenchoides besseyi Christie, folia nematode, '239'.

TRADESCANTIA L.

COMMELINACEAE

(1) *T. fluminensis* Vell., wandering jew

Pythium sp., root rot, '281'.

Cucumber mosaic virus, '281'.

TRICACHNE Nees

GRAMINEAE

(1) *T. insularis* (L.) Nees, sourgrass

Mosaic virus, '284'.

TRIFOLIUM L.

LEGUMINOSAE

(1) *T. fragiferum* L., strawberry clover

(2) *T. pratense* L., red clover

(3) *T. repens* L., white clover

(4) *T. semipilosum* Fresen., Kenys white clover

(5) *T. sp.*

Cercospora ?zebrina Pass., leafspot, on (5): '281'.

TRIFOLIUM (CONT'D)

Colletotrichum trifolii Bain & Essary, leafspot, on (5): '281'.

C. sp., anthracnose, on(4): '281'.

Heterodera trifolii (Goffart) Oostembrink, cyst nematode, on (1), (3) and (4): '120'.

Meloidogyne sp., root-knot nematode, on (5): '281'.

Pleospora herbarum (Fr.) Rabenh., leafspot, on (2): '281'.

Pseudomonas sp. (Wolf) Stapp, bacterial leafspot, on (3): '281', and (5): '103'.

Rhizoctonia sp., root rot, on (1): '281'.

Sclerotium rolfsii Sacc., southern blight, on (3): '280'.

Stemphylium sp., a saprophyte on (5): '281'.

TRIPHASIA Lour.

RUTACEAE

(1) *T. trifolia* (Burm.f.) P. Wils., lime berry

Pythium sp., root rot, '281'.

TRISTANIA R. Br.

MYRTACEAE

(1) *T. conferta* R.Br., vinegar tree

Macrophomina phaseolina (Tassi) Gold. (*Sclerotium bataticola* Taub), charcoal rot, '281'.

Paxillus corrugatus Atk., '15'.

P. curtisii Berk. Spud Berk. & Curt., '15'.

TRITICUM L.

GRAMINEAE

(1) *T. aestivum* T., common wheat

Gibberella zeae (Schw.) Petch, head blight, '281'.

Helicotylenchus dihystra (Steiner) Sher (as *Tylenchus spiralis* Cassidy), spiral nematode, '284'.

TRITICUM (cont'd)

Meloidogyne sp., root-knot nematode, '278'.

Paratylenchus elachistus (Steiner (= *P. minutus* Linford), pin nematode, '168'.

Puccinia recondita. Rob. Ex Desm. (= *P. rubigo-vera* (DC.) Wint.), leaf rust, '250'.

Pythium arrhenomanes Drechsl., root rot, '243'.

P. splendens Braun, root rot, '243'.

TRITONIA (Ker-Gawl.

IRIDACEAE

(1) *T. sp.* Montbretia

Helminthosporium sp., leafspot, '281'.

TROPAEOLUM L.

TROPAEOLACEAE

(1) *T. majus* L., nasturtium,

(2) *T. sp.*

Acroconidielia tropaeoli (Bond) Lindq. & Alippi (syn: *Heterosporium t. Bond*), leafspot, '225', '281'.

Cercospora ?tropaeoli Atk., leafspot, on (1): '281'.

Meloidogyne sp., root-knot nematode, on (2): '284'.

Pseudomonas solanacearum E.F. Sm., bacterial wilt, on (2): '279'.

Pythium sp., root rot, on (1): '281'.

Mosaic virus on (1): '241'.

Spotted wilt virus, on (1): '280'.

TULIPA L.

LILIACEAE

(1) *T. sp.*

Botrytis ?tulipae (Lib.) Lind., fire, '281'.

TULIPA (cont'd)

Sclerotinia ?sclerotiorum (Lib.) de Bary, stem rot, '281'.

VACCINIUM L.

ERICACEAE

(2) *V. dentatum* Sm.

(2) *V. retuiculatum* Sm.

(3) *V. sp.*

Asteridiella cheirodendronia (Stev.) Hansf. on (2): '94'.

A. exilis (Syd.) Hansf. (=Irene e. (Syd.) Stev.), on (3): '96', '250'.

Asterina delitescens Ell. & Martin, on (3): '250'.

Elsinoe sp., anthracnose, on (2): '250'.

Meliola alyxiae Stevens, on (2): '282'.

M. heteroseta Hoehn., on (2): '94'.

M. vaccinii Stevens, black mildew, on (1): '94', and (2): '94', '96', '250'.

Pucciniastrum vaccinii (Wint.) Joerstad (=P. myrtilli Arth.), rust, on (2): '250'.

Trichopeltis reptans Speg., on (2): '250'.

VANDA R. Br.

ORCHIDACEAE

(1) *V. teres* Lindl. x *V. hookeriana* Reichb.f

(2) *V. sp.*

Alternaria sp., on (2): '107'.

Aphelenchoides besseyi Christie, foliar nematode, on (2): '239'.

A. fragariae (Ritz.-Bos) Christie, foliar nematode, on (2): '239'.

A. ritzema-bosi (Schwartz) Steiner, on (2): '68'.

VANDA (cont'd)

Botrytis cinerea Pers. Ex Fr., blossom blight, on (2): '281'.

B. sp., on (2): '107'.

Colletotrichum sp., anthracnose, on (2): '107'.

Erwina chrysanthemi Burkh. *et al.*, on (2): '100'.

Fusarium sp., on (2): '214'.

Helicotylenchus sp., spiral nematode, on (2): '152'.

Paratylenchus sp., pin nematode, on (2): '133'.

Phytophthora palmivora Butl., on (2): '49'.

P. sp., on (2): '198'.

Rhizoctonia sp., crown and root rot, on (2): '100'.

Cymbidium mosaic virus, on (2): '281'.

Odontoglossum ringspot virus, on (2): '281'.

VANDACHNIS Hort.

ORCHIDACEAE

(1) *V. sp.*

Cymbidium mosaic virus, '281'.

VANDOPSIS Pfitzer

ORCHIDACEAE

(1) *V. sp.*

Cymbidium mosaic virus, '281'.

Mosaic virus, '107'.

Odontoglossum ringspot virus, '281'.

VANILLA Mill.

ORCHIDACEAE

- (1) *V. planifolia* Andrews (*V. fragrans* (Salisb.) Ames), vanilla
Gloeosporium sp., '27'.

VEITCHIA H. Wendl.

PALMAE

- (1) *V. merrelli* (Becc.) H.E. Moore, manila palm
Rhizoctonia sp., root rot, '281'.

VERBENA L.

VERBENACEAE

- (1) *V. litoralis* HBK. (also as *V. bonareensis* L.), ha'uoi
(2) *V. peruviana* Druce
(3) *V. sp.*
Cassytha filiformis L., parasitic vine, on (1): '225'.
Cuscuta sandwichiana Choisy, dodder, on (1): '225'.
Meloidogyne sp., root-knot nematode, on (1): '278'.
Oidium sp., powdery mildew, parasitized by *Ampelomyces quisqualis* Ces.
(=*Cicinobolus cesatii* de Bary), (3): '250' and '279'.
Pythium aphanidermatum (Edsib) Fitzp., root rot, on (2): '27'.
Rhizoctonia sp., root rot, on(3): '281'.
Stictis stellata var. *philippensis* Rehm, on (2): '39'.

VERONIA Schreber

COMPOSITAE

- (1) *V. cinera* (L.) Less, ironwood.
Meloidogyne sp., root-knot nematode, '278'.
Rotylenchulus reniformis Linford & Oliveira, reniform nematode, '167'.

VICIA L.

LEGUMINOSAE

(1) *V. faba* L., broad bean

(2) *V. sativa* L., purple vetch

Meloidogyne incognita (Kofold & White) Chitwood, root-knot nematode, on (2): '119'.

Phyllosticta sp. on (1) '212'.

Pythium arrhenomanes Drechsl., on (1): '243'.

P. debaryanum Hesse, on (1) : '243'.

P. irregulare Buism., on (1): '243'.

P. rostratum Butl., on (1): '243'.

P. splendens Braun, on (1): '243'.

Mosaic virus on (1): '212'.

Spotted wilt virus on (1): '212'.

VIGNA Savi

LEGUMINOSAE

(1) *V. cylindrical* (Stickm.) Skeels, catjang

(2) *V. marina* (Burm.) Merrill, nanea, mohihihi

(3) *V. radiata*

(4) *V. sesquipedalis* (L.) Fruwirth, asparagus bean

(5) *V. sinensis* (L.) Endl. Ex Hassk., cowpea

(6) *V. unguiculata* Walp.

(7) *V. sp.*

Cercospora cruenta Sacc., leafspot, on (4): '281'.

C. sp. (= ? *C. cruenta*), leafspot, on (2) '225'.

Colletotrichum sp., anthracnose, on (4): '281'.

Fusarium oxysporum Schlecht., wilt, on (5): '281'.

VIGNA (cont'd)

Isariopsis sp., leafspot, on (4): '281'.

Meloidogyne sp., root-knot nematode, on (5): '59', '281'.

Oidium sp., powdery mildew, on (3): '281'.

Paratylenchus elachistus Steiner (as *P. minutus* Linford), pin nematode, on (5): '168'.

Phyllosticta phaseolina Sacc., leafspot, on (5): '279'.

Pratylenchus brachyurus (Godfrey) Filip. & Schurr. Stekh., lesion nematode, on (5): '79', and (7) '284'.

Pseudomonas syringae pv. *syringae* van Hall, bacterial spot, on (5): '182'.

Pythium artotrogus (Mont.) deBary, on (5): '243'.

P. debaryanum Hesse, on (5): '243'.

P. splendens Braun, root rot, on (5): '243'.

Rhizoctonia sp., root rot, on (5): '217', and (7): '281'.

Rotylenchulus reniformis Linford & Oliveira, reniform nematode, on (5): '167'.

Sclerotium rolfsii Sacc. Southern blight, on (5): '213'.

Uromyces vignae Barclay (as *U. phaseoli* (Pers.) Wint., var. *vignae* (Barcl.) Arth.) rust, on (1) '250', on (4) and (5): '70'.

VINCA L.

APOCYNACEAE

(1) *V. major* L., big-leaf periwinkle

(2) *V. minor* L., common periwinkle

(3) *V. sp.*, Madagascar periwinkle

(4) *V. sp.*

Botrytis cinerea Pers. Ex Fr., gray-mold blight, on (1): P '281'.

VINCA (cont'd)

Phytophthora parasitica Dastur, stem and leaf blight, on (1): '281', on (2): '280', and (3): '231'.

Pythium sp., root rot, on (4): '281'.

Rhizoctonia sp., root rot, on (4): '281'.

Cucumber mosaic virus on (4) '281'.

VIOLA L.

VIOLACEAE

(1) *V. tricolor* L., pansy

(2) *V.* sp.

Botrytis cinerea Pers. ex Fr., blossom blight, on (1) : '281'.

Cercospora violae Sacc., leafspot, on (2): '216'.

Fusarium ?oxysporum Schlecht., wilt, on (1): '281'.

Meloidogyne sp., root-knot nematode, on (1) and (2): '216'.

Phyllosticta viiolae Desm., leafspot, on (2): '216'.

Pythium sp., root rot, on (4): '281'.

Rhizoctonia sp., root rot, on (1): '281'.

Spaceloma violae Jenkins, spot anthracnose, on (2): '281'.

VISCUM L.

VISCACEAE

(1) *V. articulatum* Burm.f.

Meliola visci Stevensm, '250'.

VITIS L.

VITACEAE

(1) *V. labrusca* L., fox grape

(2) *V. vinifera* L., wine grape

(3) *V.* sp.

VITIS (cont'd)

Botrytis cinerea Pers. ex Fr., gray mold rot, on (2): '250'.

Cercospora sp. (=?*Pseudocercospora vitis* (Lev.) Seg.), leafspot, on (3): '225'.

Criconemoides sp., ring nematode, on (3): '281'.

Helicotylenchus sp., spiral nematode, on (3) '281'.

Macrophomina phaseolina (Tassi) Gold. (= *Sclerotium bataticola* Taub.), charcoal rot, on (2): '281'.

Meloidogyne sp., root-knot nematode, on (2) and (3): '281'.

Plasmopara viticola (Berk & Curt.) Berl. & de Toni, downy mildew, on (3): '281'.

Rhizoctonia sp., root rot, on (3): '281'.

Uncinula necator (Schw.) Burr., powdery mildew, on (1), (2) and (3): '281'.

Xiphinema sp., dagger nematode, on (3): '281'.

WEDELIA Jacq.

COMPOSITAE

(1) *W. trilobata* (L.) Hitchc.

Alternaria sp., leafspot, on (1) : '281'.

Cassytha filiformis L., parasitic vine, on (1): '281'.

Cercospora ?wulffiae Muller & Chupp, leafspot, on (1) '281'.

Cuscuta sandwichiana Choisy, dodder, on (1): '281'.

Gloeosporium sp., anthracnose, on (1), '281'.

Rhizoctonia sp., root rot, on (1), '281'.

WIKSTROEMIA Endl.

THYMELAEACEAE

(1) *W. elongata* Gray

(2) *W. oahuensis* (Gray) Rock (= *W. foetida* (L.f.) Gray var. o. Gray, akia

WIKSTROEMIA (cont'd)

(3) *W. phillyreaefolia* Gray

(4) *W. sandwicensis* Meisn.

(5) *W. uva-ursi* Gray

(6) *W. sp.*

Amazonia wikstroemiae Hansf. (as *psychotriae* (P. Henn.)Theiss.), black mildew, on (1), (2), (3) and (6): '96'.

Botryosphaeria ribis Gross, & Duggar var. *chromogena* Shear, N.E., Stev. & M.S. Wilcox, on (3) '251'.

Calloriopsis gelatinosa (Ell. & Mart.) Syd., on (6): '39'.

Cladosporium avellaneum de Vries, on leaves of (6): '15'.

C. cladosporioides (Fres.) de Vries, on leaves of (6): '15'.

Cuscuta sandwichiana Choisy, dodder, on (4) : '225'.

Diaporthe sp., on dead and dying branches of (3): '251'.

Epicoccum nigrum Link (=E. *purpureum* Ehrenb. in Schlecht.), on (6): '15'.

Physalospora fusca Stevens, on (3): '250'.

Uredo wikstroemiae (Arthur), Hiratsuka f. (*Pucciniastrum wikstroemiae* Arthur), rust, on (5): '250'.

WILKESIA Gray

COMPOSITAE

(1) *W. gymoxiphia* Gray

Cladosporium sp., leafspot, '188'.

XANTHIUM L.

(1) *X. italicum* Moretti

(2) *X. saccharatum* Wallr.

(3) *X. sp.*

XANTHIUM (cont'd)

Meloidogyne sp., root-knot nematode, on (3): '284'.

Oidium sp., powdery mildew, on (1): '279', and on (2): '250'.

Puccinia xanthi Schw., rust, on (2): '250'.

XANTHOSOMA Schott

ARACEAE

(1) *X. brasiliensis* (Deaf..) Engl.

(2) *X. sp.*

Meloidogyne sp., root-knot nematode, on (2): '281'.

Pythium sp., root rot, on (1): '281'.

Dasheen mosaic virus, on (1): '281'.

YOUNGIA Cass.

COMPOSITAE

(1) *Y. japonica* (L.) DC. asiatic hawkweed

Rotylenchulus reniformis Linford & Oliveira, reniform Nematode, '167'.

YUCCA L.

AGAVACEAE

(1) *Y. sp.*

Coniothyrium concentricum (Desm.) Sacc., leafspot, '281'.

ZANTEDESCHIA Spreng.

ARACEAE

(1) *Z. aethiopica* (L.) Spreng., calla lily

Coniothecium richardiae (Mercer) Jauch leafspot '217'.

Coniothecium cassicola (Berk. And Curt.) Wei, leafspot '281'.

ZANTHOXYLUM L.

RUTACEAE

(1) *Z. dipetalum* Mann

ZANTHOXYLUM (cont'd)

Armillaria mellea (Vahl ex Fr.) Kummer, root rot, '159'.

ZEAL.

GRAMINEAE

(1) *Z. mays* L., corn, maize

(2) *Z. mays* L. var. *saccharata* (Sturt.) Bailey, sweet Corn

Alternaria ?alternata (Fr.) Keissler, leafspot, on (1): '281'.

Aspergillus flavus, on (*1): '221', '281'.

A. sp., leaf mold, on (1): '221', '281'.

Cladosporium herbarum (Pers.) Lk. Ex S.F. Gray, black mold, on (1): '281'.

Criconemoides sp., ring nematode, on (1): '281'.

Fusarium moniliforme Sheldon, seed rot, on (1): '281'.

Helicotylenchus dihystra (Cobb) Steiner, spiral nematode, on (1): '119'.

Helminthosporium carbonum Ullstrup (anamorph of *Cochliobolus c.* Nelson), on (1): '281'.

H. maydis Nisikado (anamorph of *Cochliobolus heterostrophus* (Drechs.)

Drechs.), southern corn blight, on (1): '7', '12', '13'.

H. sp., on (1): '225'.

ZEA (cont'd)

- Meliola bidentata* Cke., on (1) '281'; a doubtful record.
- Meloidogyne* sp., root-knot nematode, on (1): '281'.
- Mycosphaerella* sp., on (1): '281'.
- Nigrospora ?sphaerica* (Sacc.) Mason, ear rot, on (1): '281'.
- Paratylenchus elachistus* Steiner (as *P. minutus* Linford), pin nematode, on (1): '168'.
- Phoma* sp., leafspot, on (1) '281'.
- Phyllosticta* sp., leafspot, on (1): '281'.
- Physoderma maydis* Miyabe, brown spot, on (1):P '281'.
- Phytophthora drechsleri* Tucker, root rot, on (1): '246'.
- Pratylenchus zeae* Graham, lesion nematode, on (1): '119'.
- Puccinia polysora* Underw., rust, on (1): '281'.
- P. sorghi* Schw., rust, on (1): '281'.
- Pythium aphanidermatum* (Edson) Fitzp., root rot, on (1): '280'.
- P. arrhenomanes*, root rot, on (1): '243'.
- P. debaryanum*, root rot, Hesse, on (1): '243'.
- P. rostratum* Butl., root rot on (1): '243'.
- P. splendens*, root rot, on (1): '243'.
- Pythium* sp., root rot, on (1): '281'.
- Rhizoctonia* sp., root rot, on (1): '281'.
- Rotylenchulus reniformis* Linford & Oliveira, reniform nematode, on (1): '167'.
- Sclerotium rolfsii* Sacc., southern blight, on (1): '281'.
- Scutelionema brachyurum* (Steiner) Andrassy, nematode, on (1):'119'.

ZEA (Cont'd)

Setosphaeria turcica (Luttrell) Leonard & Suggs

(= *Trichometasphaeria t.* Luttrell, anamorph:

Exserohilum turcicum (Pass.) Leonard & Suggs =

Helminthosporium L. Pass.), leafspot, on (1) '80'.

Thielaviopsis ?basicola (Berk. & Curt.) Ferr., on (1): '281'.

Trichometasphaeria turcica Luttrell f. sp. Zeae, on (1): '281'.

Tylenchorhynchus latus Allen, stunt nematode, on(1): '281'.

Ustilago maydis (DC.) Corda, smut, on (1) and (2): '284'.

Maize dwarf mosaic virus on (1): '212', '284', '222'.

Maize mosaic virus on (1): '284', '91'.

ZEBRINA Schnizl.

COMMELINACEAE

(1) *Z. pendula* Schnizl., wandering jew, honohono

(2) *Z. sp.*

Sclerotium rolfsii Sacc., southern blight, on (2): '281'.

Mosaic virus on (1): '281'.

ZINGIBER Boehm.

ZINGIBERACEAE

(1) *Z. officinale* Roscoe, ginger

(2) *Z. zerumbet* (L.) Smith, wild ginger

Coniothyrium zingiberi Stev. & Atienza, leafspot, on (1): '215'.

Ditylenchus sp., stem and bulb nematode, on (1): '119', '280'.

Fusarium oxysporum Schlecht. F. zingiberi Trujillo, fusarium yellows, on (1) '267'.

F. solani (Mart.) Appel & Wr., on (1): '101'.

F. sp., rhizomes rot, on (1): '215'.

ZINGIBER (cont'd)

- Helicotylenchus* sp., spiral nematode, on (1): '281'.
Meloidogyne sp., root-knot nematode, on (1): '105'.
Myrothecium sp. (=M. ?roridus Tode ex Fr.), rhizome rot, on (1): '225'.
Phyllosticta zingiberis Stev. & Ryan, leafspot, on (2): '250'.
P. sp., on (1): '280'.
Pratylenchus sp., lesion nematode, on (1): '281'.
Pseudomonas solanacearum E.F. Sm. Bacterial wilt, on (1): '100'.
Pythium aphanidermatum (Edson) Fitzp., root rot, on (1): '284'.
P. graminicola Subram. On (1): '280'.
Radopholus similis (Cobb) Thorne, burrowing nematode, on (1): '119', '239'.
Rhizoctonia (solani) Kuehn, root and rhizome rot, on (1): '225'.
Rotylenchylus reniformis Linford & Oliveira, reniform nematode, on (1): '167'.
Tylenchorhynchus sp., stunt nematode, on (1): '119'.
Xiphinema americanum Cobb, dagger nematode, on (1): '119'.

ZINNIA L.

COMPOSITAE

- (1) *Z. elegans* Jacq., cultivated zinnia Jacq., cultivated zinnia
 - (2) *Z. pauciflora* L., wild zinnia
 - (3) *Z. sp.*
- Alternaria ?zinniae* Pae, alternaria blight, on (1): '281'.

ZINNIA (cont'd)

Aphelenchoides besseyi Christie, foliar nematode, on (3): '239'.

Fusarium oxysporum Schlecht., wilt, on (1): '281'.

Meloidogyne sp., root-knot nematode, on (1): '281', and (2) '278'.

Oidium sp., powdery mildew, on (1) and (3): '225'.

Paratylenchus elachistus Steiner (as *P. minutus* Lindord), pin nematode, on (1): '168'.

Pythium sp., root rot, on (1) '281'.

Rhizoctonia sp., root rot, on (1): '281'.

Rotylenchulus reniformis Linford & Oliveira, reniform nematode, on (1): '167'.

Mosaic virus on (1) '284'.

ZISIPHUS Mill.

RHAMNACEAE

(1) *Z. mauritiana* Lam. (= *Z. jujuba* Lam.), Indian jujube

Erwinia chrysanthemi Burkh., bacterial leaf spot, '281'.

Rhizoctonia sp., root rot, '281'.

ZOYSIA Willd.

GRAMINEAE

(1) *Z. japonica* Steud., Japanese lawn grass

(2) *Z. matrella* (L.) Merr., Manilla grass

(3) *Z. tenuifolia* Trin., mascarene grass

(4) *Z.* sp.

Colletotrichum falcatum Wemnt, anthracnose, on (1) and (3): '281'.

Criconemoides sp., ring nematode, on (4): '281'.

Curvularia lunata (Wakker) Boedijn, leafspot, on (3): '281'.

ZOYSIA (cont'd)

Exserohilum sp., leafspot, on (3): '281'.

Helminthosporium sp., leafspot, on (2): '27';

?*Exserohilum* sp.

Puccinia zoysiae Diet., rust, on (1) and (3): '281'.

Pythium aphanidermatum (Edson) Fitzp., root rot, on (4): '281'.

Rhizoctonia sp., root rot, on (1): '281', and (3): '280, '281'.

Part 2. *Fungi and other Microorganisms not recorded in Part 1.*

Fungi on various substrates:

MYXOMYCETES '2':

Alwisia bombarda Berk. & Br. (= *Tubifera* b. (Berk. & Br.)

Martin, *Arcyria carnea* (G. Lister) G. Lister, *A. cinerea* (Bull.) Pers., *A.*

cinerea var. *digitata* G. Lister, *denudata* (L.) Wettst., *A. ferruginea* Fickl., *A.*

nutans (Bull) Grev., *A. virescens* G. Lister,

Badhamia affinis Rost., *B. affinis* var. *orbiculata* (Rex)

G. Lister, *B. capsulifera* (Bull.) Berk., *B. goniospora* Meyl., *B. mandshurica*

Skvortz, *B. nitens* Berk., *B. utriculosa* (Bull.) Berk., *B. versicolor* A. Kister,

Ceratomyza fruticulosa (Muell.) Macbr., *C. fruticulosa* var. *flexuosa* Lister,

Cienkowskia reticulata (Alb. & Schw.) Rost.,

Clastoderma debaryanum Blytt,

Comatricha laxa Rost., *C. longa* Peck, *C. nigra* (Pers.) Schroeter., *C. pulchella* (C.

Bab.) Rost., *C. pulchella* var. *gracilis* G. Lister, *C. typhoides* (Bull.) Rost.,

Craterium leucocephalum (Per.) Ditm.,

Cribaria intricate Schrad., *C. intricata* var. *dicydioides*

(Cke & Bakif.) A. Kister, *C. microcarpa* (Schrad.) Pers., *C. minutissima*

Schw., *C. piriformis* Schrad., *C. tenella* Schrad. var. *concinna* G. Kister, *C.*

violacea Rex,

Diachaea leucopoda (Bull.) Rost.,

Dictydium cancellatum (Batsch) Macbr.,

Diderma effusum (Schw.) Morg., *D. lyalii* (Masse) Morg.,

D. testaceum (Schrad.) Pers.,

Didymium crustaceum *D. flexuosum* Yamashiro,

D. melanospermum (Pers.) Macbr., *D. nigripes* (Link) Fr. *D. nigripes* var.

xanthopus (Ditm.) A. Lister, *D. performatum* Yamashiro, *D. squamulosum*

(Alb. & Schw.) Fr.

MYXOMYCETES (cont'd)

Erionema aureum Penz.,

Fuligo cinerea Morg. Var. *ecorticata* G. Lister, *F. muscorum*

Alb. & chw., *F. septica* (L.) Wiggers,

Hemitrichia leiotricha (A. Lister) G. Lister, *H. serpula*

(Scop.) Rost., *H. vesparium* (Batsch) Macbr.,

Lamproderma arcyronema Rost., *L. colubinum* (Pers.) Rost.,

L. columbinum var. *sessile* G. Lister, *L. scintillans* (Berk. & Br.) Morg.,

Lycogala epidendrum (L.) Fr., *L. flavofuscum* (Ehr.) Rost.,

Ophiotheca wrightii Berk. & Curt.,

Perichaena chrysosperma (Currey) A. Lister, *P. depressa*

Libert, *P. vermicularis* (Schw.) Rost.,

Physarella oblonga (Berk. & Curt.) Morg.,

Physarum seneum (A. Lister) R.E. Fries, *P. asiaticum* Skvortz.

P. contextum (Pers.) Pers., *P. griseum* Skvortz, *P. leucopus* Link, *P. maydis*

(Morgan) Torr., *P. melleum* (Berk & Curt.) Masee, *P. nucleatum* Rex., *P.*

nutans Pers., *P. polycephalum* Schw. *P. psittacinum* Ditm. var. *fulvum*

Lister, *P. pusillum* Lister, *P. roseum* Berk. & Br., *P. roseum* var.

discocephalum Yamashiro, *P. serpula* Morg., *P. sinuosum* (Bull.) Weinm. *P.*

virde (Bull.) Pers.,

Stemonitis axifera (Bull.) Mab., *S. confluens* Cke. & Ellis,

S. flavogenita Jahn, *S. fusca* Roth, *S. herbatica* Peck, *S. pallida* Wingate,

S. splendens Rost., *S. splendens* var. *flaccida* A. Lister, *S. virginensis* Tex.

Trichia asiatica Skvortz, *T. contorta* Rost. var. *inconspicua*

(Rost) A. Lister, *T. persimilis* Karst.,

Tubifera ferruginosa (Batsch) Gmel., *T. stipitata* Macbr.

(=*T. microsperma* (Berk. & Curt.) Martin).

PHYCOMYCETES

Achlya sp., widely distributed over the Hawaiian Islands;

Allocyces arbuscula Butler, from soil;

PHYCOMYCETES (cont'd)

Aphanodictyon papillatum Honeycutt, from soil

Aphanomyces sp., very common on nearly all aquatic and
In soil;

Brevilegniz sp., including *B. subclavata* Couch;

Catenaria anguillulae Sorokin, in invertebrates;

Catenochytrium oahuensis Sparrow n. sp., from soil;

Chytridiomyces sp., from soil: '248'.

Chytridium confervae (Willie) Minden: '277'.

C. parasiticum Willoughby, on *Rhizophidium* sp.; and

C. schenkii (Schenk) Scherffel, on filaments of
Oedogonium sp.: '248'.

Cladochytrium replicatum Karling, from soil: '277'.

C. schenkii (Schenk) Scherffel, on filaments of
Oedogonium sp.: '248'.

Diplophyctis intestina (Schenk) Schroeter, in *Chara* sp.;

Endophlyctis confervae-glomeratae (Clenk.) Sparrow, in
filaments of *Cladophora* sp.;

E. bulbiger (Zopf) Fischer, in filaments of *Oedogonium* sp.;

Monoblepharella elongate Springer, from grass;

M. taylori Sparrow, from soil;

M. sp., from soil;

Nephrochytrium stellatum Couch, on *Chara* sp.;

Olpidium pendulum Zopf, from soil;

Phlyctochytrium aureliae Ajello, from moss debris;

PHYCOMYCETES (cont'd)

- P. chaetiferum* Karling, on moribund *Cladophora* sp.;
- P. hydrodictyi* (Braun) Schroeter, on *Hydrodictyon* sp.;
- P. unispinum* Paterson, on cysts of an unknown tozoon and
Desmids;
- Phylctorhiza* affin. *peltata* Sparrow, from mud;
- Plectospira* sp., widespread in soil;
- Polychytrium aggrfegatum* ajello, from mossy debris;
- P.* sp., abundant in soils;
- Pythium* sp., from debris;
- Rhizidiomyces apophysatus* Zopf, parasitic on oospores of
Achyla sp.;
- Rhizophlyctis bonneyi* Sparrow n. sp., from soil;
- R. roses* (de Bary) Woronin, from soil.
- Rhizophydium chaetiferum* Sparrow, from *Oedogonium* sp.;
- R. keratinophilum* Karling, from mud;
- R. monsense* Sparrow n.sp., on diatoms; and
- R. pollinis-pini* (Braun) Zopf, from soil; '248', '277'.
- R. sphaerotheca* Zopf., from soil: '248', '277'.
- Saprolegnia* sp., uncommon in soil: '248'.

FUNGI PARASITES ON OR ASSOCIATED WITH OTHER FUNGI-

- Darluca filum* (Biv.-Bern, ex Fr.) Berk. (= *Sphaerellopsis* f.
(Biv.-Bern. Ex Fr.) Sutton, on *Puccinia versicolor* Diet. & Holoway: '250',
Transchelia discolor Trans & Litv.,: '225', *Uromyces leotodermus* Syd. and *U.*
rhyncosorae Ell," '225'.
- Calloriopsis gelatinosa* (Ell. & Mart.) Syd., on

Periosporiaceae (=Melioialea): '39'.

FUNGI PARASITES ON FUNGI(cont'd,)

Cicinnobolus cesatii de Bary (=Amelopsis quiscualia Cesati, on *Oidium* sp.: '250'.

Orbilia epispora (Ny.) Karst., on Polyporaceae: '39'.

Parascorias byrsonimae Mendoza, associated with

Antennellina hawaiiensis Mendoza: '250'.

Plochrompeltidelia smilacine Mendoza (=Chaerothyria s.),

Associated with *Phragmocapnias smilacina* Mendoza: '250'.

Spegazzinia ornate Sacc., on *Meliola* sp.: '250'.

Tuberculina maxima, on *Uromyces koae*: '77'.

FUNGI ON INSECTS

Aspergillus parasiticus Spears, on *Pseudococcus calceolariae*: '249'.

Beauveria bassiana Bals., on *Pieris rapa*: '261'.

Botrytis grassii (?), on *Adoretus sinicus*, *Anomala orientalis*,

Calandra remota, *Pseudolus hospes*, *Scotyidae* and

Stenommatius musae: '250'.

Cephalosporium subverticillatum Schulz & Sacc., on

Rhopalosiphum maydis: '279'.

Cordyceps sp., on *Perkinsiella saccharicida* and *Siphanta acuta*: '249'.

Entomophthora pseudococci Spears, on *Pseudococcus calceolariae*

and *P. virgatus*: '249'.

E. sp., on *Perkinsiella saccharicida*: '250'.

Fusarium multiforme Sheldon, on *Syagrus fulvitaris*: '279'.

Isaria sausseurei Cooke, on *Polestes* sp.: '249'.

Laboulbenia cauliculata Thaxter, on *Atelothrus constrictus*,

A. depressus, *Colpococcus lansiensis*, *C. marginatus*, *Meothriscus alternans*,

M. hawaiiensis *M. musicola* and *Metromenus fraudator*, *L. cauliculata* var.

prolixa Thaxter, on *Mesothriscus collaris*, *M. tricolor* and *Metromenus aequalis*;

FUNGI ON INSECTS (cont'd)

L. liculata var. *spectabilis* Thaxter, on *Metromenus caliginosus*, *M. mutabilis*; *hawaiiensis* Thaxter, on *Atelothrus erro*, *A. gracilis*, *Bembidium* sp., *Colpocaccus hawaiiensis*, *C. lanaiensis*, *C. posticatus*, *C. tantalus*, *Colpodiscus lucipetens*, *Mauna frigida*, *Mecyclothorax montivagus*, *M. ovipennis*, *M. pusillus*, *M. sp.*, *Mesthriscus alternans*, *M. musicola* and *M. tricolor*;

L. sphyri Thaxter, on *Meromenus caliginosus*, *M. epicurus* and *M. latifrons*: '266'.

Metarrhizium anisopline (Metsch.) Sorok., on *Adoratus sinicus* and *Anomala orientalis*: '249'; on *Asynonchus godmani*, *Gonocephalum seriatum*, *Gonoderus exsul* and *Plusia chalcites*: '250'; and *Rhabdocnemia obscura*: '249'

Nectria subcoccinea Sacc. & Ell., on Coccidae;

Ophionectria coccicola (Ell. & Ev.) Berl. & Vogl., on *Lepidosaphes beckii*: '250'; and on *Mytilaspes* sp.: '279'.

Paranagrus optabilis Perk., on *Perkininsiella saccharicida*: '249'.

Sphaerostilbe coccophile Tul., on *Lepidosaphes beckii*;

Sporotrichum sp., non *Genophantis* sp., *Perkinsiella sacchricida* and *Semnoproepia* sp.; and

Torrubiella sp., on *Omiodes accepta*: '250'.

FUNGI PARASITIC ON VARIOUS NEMATODES

Arthrobotrys oligospora Fresenius;

Catenaria anguillulae Sorokin; and

Harposporium anguillulae Lohde: '164'.

Microocera sp., specifically non *Meloidogyne* sp., '150'.

Penicillium sp., specifically on *Meloidogyne* sp.: '278'.

FUNGI ON NEMATODES (cont'd)

Stylopagehadra Dechsl.: '164'.

MISCELLANEOUS FUNGI ON VARIOUS SUBSTRATES-

Anthurus javanicus (Penzig) G.B. Cunningham under *Eucalyptus* sp. on Oahu;

Aseroe rubra LaBill. Ex Fr., under various trees, on Maui, Molokai and Oahu: '84'.

Brachysphaera tropicalis Nawawi (reported as *Actinospora megalospora* Ingold) from foam from a stream on Oahu: '84' (fide Goos, *in litteris*).

Clathrus oahuensis Dring, on soil among grass, on Oahu: '64'.

Crepidotus alabamensis Murr., on dead branches of *Aleurites moluccana* (L.) Willd., *Eugenia jambos* L., *Hibiscus tiliaceus* L. and *Psidium guajava* L., on Oahu: '276'.

C. amygdalosporus Kuhner, on *Eugenia malaccensis* L., on Oahu;

C. appalachianensis Hesler & Smith, on *Pluchea* sp., on Oahu;

C. applanatus (Pers.) Kummer var. *globiger* (Berk.) Ueki & C.W. Smith (?), on *Hibiscus tiliaceus* L., on Oahu;

C. avellaneus Smith, on rotten branch, on Oahu;

C. bakerae Ueki & C.W. Smith sp. nov., on dead stimp of *Mangifera indica* L.,

C. citrinus Petch, on *Hibiscus tileaceus* L., on Oahu;

C. mollis (Fr.) Steude var. *mollis* (as *C. fulvo-tomentosus* Peck '26') on *Eugenia jambos* L., on Oahu, *E. malaccensis* L., on Oahu, and on *Scindapsus aureus* (Lind. & Andre) Engl., on Oahu; and

C. nephrodes (Berk. & Curt.) Sacc., on *Psidium guajava* L., on Oahu: '276'

Cyathus berkleyanus (Tul.) Lloyd, on rotten wood, on Kauai, Maui, and Oahu;

C. Bulleri Brodie, on twigs and sawdust, on Hawaii, Kauai, and Oahu;

FUNGI ON SUBSTRATES (cont'd)

- C. crassimurus* Brodie, on rotten wood and sawdust, on Hawaii;
C. earlei Lloyd and *C. limbatus* Tul., on Oahu;
C. microsporus Tul., on Hawaii and Oahu;
C. pallidus Berk. & Curt., common on the Hawaiian Islands;
C. poeppigii Tul., on Hawaii; and
C. stercoreus (Schw.) de Toni, on dung, on Kauai, Molokai and Oahu: '229'.
Dictophora indusata (Vent. ex Pers.) Desv., on Hawaii (see Cobb '59'): '85'.
Helicoma ambiens Morgan, on dead wood, on Molokai;
H. atraseptatum Linder, on dead angiospermous wood, on Molokai;
H. dennisii M.B. Ellis, on bark, on Molokai, on wood fence post, on Oahu;
Helicomycetes fuscopes Linder, on wood, etc., on Molokai and Oahu;
H. lubricoides Sacc. em. Matruchot, on bark of angiosperm wood on Molokai;
and
Hobsonia mirabilis (Peck) Linder, on water-soaked log, etc., on Molokai and
Oahu: '93'.
Linderiella columnata (Bosc) G.H. Cunningham (as *Clathrus trilobatus* Cobb '59')
on Kauai: '85'.
Listeromyces insignis Penzig & Sacc., on fallen log, on Oahu: '87'; (cfr. M.B. Ellis,
More Dematiaceous Hyphomycetes, 1976:193).
Phallus rubricundus (Bosc) Fr. (as *Ithyphallus coralloides*, see Cobb '58'): '85'.

NEMATODES: PREDACEOUS NEMATODES ON VARIOUS OTHER
NEMATODES-

Actinolaimus sp. '155'.

Aphelenchoides linfordi Christie, *A. oahuensis* Christie, and *A. oliveirae* Christie '55'; *A. tenuicaudatus* (de Man) Christie & Arndt (including *Meloidogyne* sp. and *Pratylenchus pratensis* (de Man) Filip.) '55'; *A. winchesi* (Goodey) Filip. Var. *filicaudatus* Christie '55'.

Discolaimus major Thorne, *D. similis* Thorne (= *D. major* q.v.), *Dorylaimus centrocerus* de Man, *D. irritans* Cobb in Thorne & Swanger, *D. krygeri* Ditlevsen, *D. obscurus* Cobb in Thorne & Swanger, *D. obtusicaudatus* Bastian '207'; *D. subtilis* Thorne & Swanger '55'; *D.* sp. '165'.

Monochus brachlaimus Cobb (specifically on *Meloidogyne* sp. and *Rotylenchus similis* (= *Radopholus similis*) (Cobb) Filip.), '41'; *M. brachyurus* Buetsch., *M. cobbi* Cassidy, *M. hawaiiensis* Cassidy, *M. index* Cobb, *M. lacustris* Cobb, *M. longicaudatus* Cobb, *M. muscorum* (Dujardin) Bastian, '41'; *M. papillatus* Bastian (including *Heterodera marioni* (Cornu) Goodey (= *Meloidogyne* sp.)), '41'; *M. parvus* de Man, '41'; *M. signatures* Cobb (specifically on *Heterodera marioni* and *Rotylenchus similis* (= *Radopholus similis*)), '41'; *M.* sp. (specifically on *Rotylenchus similis* (= *Radopholus similis*)), '42'.

Nygolaimus vulgaris Thorne, on Oligochaete worms, '207'.

NEMATODES: SPECIES QUESTIONABLY PARASITIC, SAPROGENOUS AND
THOSE FEEDING ON ALGAE, BACTERIA AND FUNGI-

Aphelenchoides parientinus,

Acrobeles ctenocephalus Thorne,

Acrobelloides butschlii (de Man) Steiner & Buhner, '207';

Actinolaimus elaboratus (Cobb) Cobb '40';

Alaimus primitivus de Man,

Amphidelus delichurus (de Man) Thorne,

Anthonema revolute Cobb '207';

NEMATODES (cont'd)

Aphelenchus avenae Bastian, '164';

Axonchium magnicollis (Cobb) Cobb '207'.

Bastiana sp.,

Bunonema sp.,

Butlera sp., '207'.

Cephalobus filicaudatus Cobb, *C. hawaiiensis* Cobb, '58'; *C. parvus* Thorne,

Chitinotylenchus annulatus (Cassidy) Filip.,

Criconema squamosum (Cobb) Taylor,

Criconemoides crotaloides (Cobb) Taylor, *C. mutabile* Taylor, *C. rusticus*
(Micoletzky) Taylor, *C. sphaerocephalum* Taylor, '207'.

Cyatholaimus sp., '40';

Cylindrolaimus sp., '58'.

Diplogaster intermedius Cobb, '58';

Discolaimellus (Cobb) Thorne & Swanger,

Dorylaimellus sp.,

Dorylaimoides sp.,

Doylaimus hawaiiensis Cobb '58'; *D. microdorus* de Man, *D. minor* Cobb, *D.*
pratensis de Man, *D. productus* Cobb and *D. striaticaudatus* Cobb, '58'.

Eucephalobus latus (Cobb) Thorne, '207'.

Ironus sp., '40'.

Labronema pacificum (Cobb) Thorne,

Monohystera impetuosa Cobb, *M. subrustica* Cobb, '207'.

Nygolaimus brachyurus (de Man) Thorne,

NEMATODES (cont'd)

Oxydirus oxycephalus (de Man) Thorne,
Panagrolaimus rigidus (Schneider) Thorne,
Plactus cirratus Bastian, *P. granulatus* Bastian, '207'; *P. hawaiiensis* Cobb,
Prismatolaimus hawaiiensis Cobb, '58';
Psilenchus Hilarulus de Man, '207';
Pungentus ichthyurris (Cobb) Thorne & Swanger,
Rhabditis monhystera Buetschli, '58';
Rhabdolaimus sp., '36'.
Sectonema ventralis Thorne,
Teratocephalus terrestris (Buetschli) de Man,
Trilobus sp.,
Tripyla affinis de Man,
Tylancholaimellus sp.,
Tylancholaimus sp.,
Zeldia punctata (Thorne) Thorne, '207'.

ASCOMYCETES

Buellia haliotropha E. Kohlmeyer, on dead branch of *Hibiscus ?tiliaceus*, '151'.
Ceriosporopsis halima Linder, on driftwood: '151'. See also '5'.
Corollospora maritima Wedermann, ascospores in foam: '151'. See also '5'.
Corollospora pulchella Kohlmeyer, I. Schmidt & Nair, ascospores in foam: '151'.
Corollospora trifurcata (Hoehnck) Kohlmeyer, ascospores in foam: '151'.

ASCOMYCETES (cont'd)

Didymosphaeria enalia Kohlmeyer, on dead prop roots and young plants of *Rhizophora mangle*: '151'.

Halosphaeria quadricornata A.B. & J.W. Cribb, on dead branches of *Hibiscus tiliaceus*, etc.: '151'.

Helicascus kanaloanus Kohlmeyer, on *Rhizophora mangle* L.: '151'

Hydronectria tethys J. & E. Kohlmeyer, on wood and dead bark of *Hibiscus tiliaceus*, etc.: '151'.

Kiessleriella blepharosporea J. & E. Kohlmeyer, on bark, etc. of *Rhizophora mangle*: '151'.

Lentescospora submarina Linder, on driftwood: '151'.

Lignincola Laevis on *Hibiscus tiliaceus*, *Rhizophora mangle* and *Pluchea x fosbergii*: '151'.

Lulworthia sp., on *Hibiscus tiliaceus* and *Rhizophora mangle*: '151'.

Metasphaeria australensis A.B. & J.W. Cribb, on *Rhizophora mangle*, submerged wood of *Hibiscus tiliaceus* and on driftwood: '151'.

Remispora cucullata Kohlmeyer (anamorpha: *Periconia prolifica* Anastasiou), on driftwood and submerged branches of *Pluchea x fosbergii*: '151'.

Remispora maritime Linder, on driftwood: '151'.

Remispora salina (Meyers) Kohlmeyer, on piling and driftwood: '151'.

Torpedospora radiata Meyers, on driftwood: '151'.

FUNGI IMPERFECTI

Clavariopsis bulbosa Anastasiou, on driftwood: '151'.

Cytospora sp., on prop root of *Rhizophora mangle*: '151'.

Holoclyphina villosa J. & E. Kohlmeyer, on *Rhizophora mangle*: '151'.

Humicola alopallonella Meyers & Moore, on calacareous tubes of terenids on *Pluchea x fosbergii*: '151'.

FUNGI IMPERFECTI (cont'd)

Periconia prolifica Anastasiou (anomorpha of *Remispora cucullata* q.v.), on calcareous tubes of terenids from driftwood and submerged *Pluchea x fosbergii*: '151'.

"*Phoma*" sp., on *Porolithon onkodes*; also on *Hibiscus tiliaceus* and *Rhizophora mangle*: '151'.

Robillarda rhizophorae Kohlmeyer, on submerged root of *Rhizophora mangle*: '151'.

Varicosporina ramulosa Meyers & Kohlmeyer, on *Sargassum* sp. and from foam: '151'.

FUNGI: AQUATIC FUNGI

Alantospora acuminata Ingold, '5'.

Anguillospora crassa Ingold, '5'; *A. flagellifera* Ingold (= *Centrospora acerina* (Hartig) Newhall = *Mycocentrospora a.* (Hartig) Deighton, non-valid names), '5'; **A. longissima* Ingold, '228'; **A. pseudolongissima* Ranzoni, '228'.

Articulospora tetracladia S. Nilsson, '228'.

**Bacillispora aquatica* S. Nilsson, '228';

Brachysphaera tropicalis Nawawi, fide Goos (as *Actinospora megalospora* Ingold), '84', '228'.

**Campylospora chaetocladia* Ranzoni (248), '228';

**Clavariopsis aquatica* de Wild., '228';

**Clavatospora tentacula* (Umphett) S. Nilsson, '228'.

**Flabellospora crassa* Alasaodura, '228';

**Flagellospora pencillioides* Ingold, '228'; **F. prolifera* R.H. Petersen, '228'.

Geniculospora inflata (Ingold) S. Nilsson (as *Articulospora i.* Ingold '5').

Laridospora appendiculata (Anast.) Nawawi (as *Dactylella a.* Anastasiou, '5', '228').

AQUATIC FUNGI (cont'd)

**Montosporella microaquatica* (Tubaki) S. Nilsson, '228'.

**Pyramidospora casuarinae* S. Nilsson (as *P. densa* Alasaodura, '284').

**Tetrachaetum elegans* Ingold, '228';

Tetracladium marchalianum de Wild., '228';

**Tricladium angulatum* Ingold, '228'; **T. anomalum* Ingold, '175'; *T. gracile* Ingold, '5'; *T. splendens* '5';

**Triscelophorus monosporus* Ingold, '228'.

Varicosporium elodeae Ingold, '5'.

*Isolated and identified by Ranzoni, '228'.

HOST GENERA ARRANGED BY FAMILIES

Acanthaceae

Aphelandra
Barleria
Beloperone
Hemigraphis
Odontonema
Thunbergia

Aceraceae

Acer

Adiantaceae

Adiantum

Agaricaceae

Agaricus

Agavaceae

Agava
Cordylina
Dracaena
Polianthes
Yucca

Aizoaceae

Lampranthus
Sesuvium

Alismataceae

Sagittaria

Amaranthaceae

Alternanthera
Amaranthus
Celosia
Gomphrena

Amaryllidaceae

Agapanthus
Amaryllis
Crinum
Haemanthus
Hippeastrum
Pancratium

Anacardiaceae

Anacardium
Mangifera
Rhus
Schinus

Annonaceae

Annona
Stelechocarpus

Apocyanaceae

Adenium
Allamanda
Alyxia
Carissa
Catharanthus
Ervatamia
Nerium
Plumeria
Vinca

Aquifoliaceae

Ilex

Araceae

Aglaonema
Alocasia

Anthurium

Colocasia
Dieffenbachia
Philodendron
Pothos
Scindapsus
Spathiphyllum
Syngonium
Xanthosoma
Zantedeschia

Araliaceae

Cheirodendron
Hedera
Panax
Polyscias
Pseudopanax
Schefflera
Tetraplasandra

Araucariaceae

Araucaria

Asclepiadaceae

Gomphrocarpus
Stephanotis
Telosma

| | | |
|--|---|---|
| <i>Aspidiaceae</i> Polysrichum | Bromelia Tillandsia | <i>Casuarinaceae</i> Casuarina |
| <i>Aspleniaceae</i> Asplenium | <i>Buxaceae</i> Buxus | <i>Celastraceae</i> Perrottetia |
| <i>Balsamonaceae</i> Impatiens | <i>Byttneriaceae</i> Theobroma | <i>Chenopodiaceae</i> Beta Chenopodium Spinacia |
| <i>Barringtoniaceae</i> Barringtonia | <i>Cactaceae</i> Cereus Echinopsis Epiphyllum Opuntia Schumbergera | <i>Clusiaceae</i> Calophyllum |
| <i>Basellaceae</i> Basella | | <i>Commelinaceae</i> Commelina Dichorisandra Tradescantia Zebrina |
| <i>Begoniaceae</i> Begonia | <i>Campanulaceae</i> Brighamia Laurentia Rollandia | |
| <i>Bignoniaceae</i> Tabebuia Tecomaria | | |
| <i>Bislerrulaceae</i> Bislerrula | <i>Cannaceae</i> Canna | |
| <i>Bixaceae</i> Bixa | <i>Capparidaceae</i> Capparis | |
| <i>Blechnaceae</i> Sadleria | <i>Caprifoliaceae</i> Lonicera | |
| <i>Boraginaceae</i> Messerschmidia Symphytum | <i>Caricaceae</i> Carica | |
| <i>Bromeliaceae</i> Aechmea Ananas Billbergia | <i>Caryophyllaceae</i> Cerastrum Dianthus Drymaria Gypsophila | |

| | | |
|-------------------|-----------------------|----------------------------|
| <i>Compositae</i> | Zinnia | Cladium |
| Acanthospermum | | Cyperus |
| Ageratum | <i>Convolvulaceae</i> | |
| Anbrosia | Argyreia | <i>Cyperaceae</i> (cont'd) |
| Arctium | Calonyction | Gahnia |
| Argyroxiphium | Convolvulus | Machaerina |
| Artemisia | Dichondra | Rhynchospora |
| Aster | Ipomoea | Scirpus |
| Bidens | Jacquemontin | |
| Calendula | Merremia | <i>Davalliaceae</i> |
| Callistephus | | Davallia |
| Chrysanthemum | <i>Crassulaceae</i> | |
| Coreopsis | Echeveria | <i>Dennstaedtiaceae</i> |
| Cosmos | Kalanchoe | Micolepia |
| Cynara | Sedum | Pteridium |
| Dahlia | | |
| Dubautia | <i>Cruiferae</i> | <i>Dicksoniaceae</i> |
| Enilia | Armoracia | Cibotium |
| Erigeron | Brassica | |
| Eupatorium | Lepidium | <i>Dioscoreaceae</i> |
| Galinsoga | Nasturtium | Dioscorea |
| Gazania | Raphanus | |
| Gerbera | | <i>Elaeocarpaceae</i> |
| Gnaphalium | <i>Cucurbitaceae</i> | Elaeocarpus |
| Helianthus | Benincasa | |
| Helichrysum | Citrullus | <i>Elaphoglossaceae</i> |
| Hypochaeris | Cucumis | Elaphoglossum |
| Lactuca | Cucurbita | |
| Pluchea | Lagenaria | <i>Epacridaceae</i> |
| Senecio | Luffa | Styphella |
| Sonchus | Momordica | |
| Tagetes | Sechium | <i>Ericaceae</i> |
| Taraxacum | | Rhododendron |
| Tithonia | <i>Cyatheaceae</i> | Vaccinium |
| Vernonia | Cyathea | |
| Wedelia | | |
| Wilkesia | <i>Cyperaceae</i> | |
| Xanthium | Baumea | |
| Youngia | Carex | |

Euphorbiaceae

Acalypha
Aleurites
Antidesma
Breynia
Claoxylon
Codiaeum
Euphorbia
Macaranga
Manihot
Ricinus

Geraniaceae

Geranium
Pelargonium

Gesneriaceae

Chrysothemis
Cyrtandra
Saintpaulia
Sinningia
Tussacia

Gleicheniaceae

Dicranopteris
Gleichenia
Hicriopteris

Goodeniaceae

Scaevola

Gramineae

Agrostis
Anthoxylon
Arundo
Avena
Axonopus
Bambusa
Brachiaria
Bromus

Gramineae (cont'd)

Cenchrus
Chloris
Coix
Cortaderia
Cymbopogon
Cynodon
Dactylis
Digitaria
Echinochloa
Eleusine
Eragrostis
Eremochloa
Heteropogon
Holcus
Hordeum
Lolium
Melinis
Oryza
Panicum
Paspalum
Pennisetum
Poa
Rhynchelytrum
Saccharum
Setaria
Sorghum
Sporobolus
Stenotaphrum
Trichachne
Triticum
Zea
Zoysia

Iridaceae

Gladiolus

Iris

Tritonia

Labiatae

Ajuga
Coleus
Lavandula
Ocimum

Phyllostegia

Plectranthus
Prunella
Rosmarinus
Salvia
Stachys

Lauraceae

Cinnamomum
Cryptocarya
Persea

Leguminosae

Abrus
Acacia
Albizia
Arachis
Cajanus
Calopogonium
Canavalia
Cassia
Coronilla
Crotalaria
Desmodium
Dolichos
Erythrina
Glycine
Indigofera
Lathyrus
Leucaena
Lotus
Lupinus
Macroptilium
Medicago
Melilotus
Mimosa
Mucuna
Pachyrrhizus
Phaseolus

Leguminosae (cont'd)

Pisum
Pithecellobium
Prosopis
Samanea
Sesbania
Sophora
Strongylodon
Tephrosa
Trifolium
Vicia
Vigna

Liliaceae

Allium
Asparagus
Chlorophytum
Dianella
Hemerocallis
Lilium
Ophiopogon
Tulipa

Lindsaeaceae

Sphenomeris

Lobeliaceae

Clermontia
Cyanea
Lobelia

Loganiaceae

Buddleja
Fagraea
Labordia

Loranthaceae

Korthalsella

Lycopodiaceae

Lycopodium

Lythraceae

Lagerstroemia

Magnoliaceae

Magnolia

Malpighiaceae

Malpighia

Malvaceae

Abutilon
Gossypium
Hibiscadelphus
Hibiscus
Malva
Modiola
Sida
Thespesia

Marantaceae

Calathea
Ctenanthe
Maranta

Melastomataceae

Clidemia
Dissotis
Heterocentrum
Melastoma

Meliaceae

Melia
Toona

Menispermaceae

Cocculus

Moraceae

Artocarpus
Dorstenia
Ficus

Musaceae

Heliconia
Musa

Myoporaceae

Myrsina
Suttonia

Myrtaceae

Eucalyptus
Eugenia
Melaleuca
Metrosideros
Pimenta
Psidium
Syncarpia
Tristania

Nelumbonaceae

Nelumbo

Nyctaginaceae

Boerhavia
Bougainville
Pisonia
Rockia

Oleaceae

Jasminum
Ligustrum
Oleo
Osmanthus

Onograceae

Fuchsia
Ludwigia

Orchidaceae

Acanthephippium
Aerides
Angraecum
Arachnente
Arachnia
Arachnostylis
Aranda
Aranthera
Arundina
Ascocentrum
Bletia
Braspasia
Brassavola
Brassia
Brassocattleya
Brassoepidendrum
Brassolaeliocattleya
Cattleya
Caularthron
Dendrobium
Diacattleya
Doritaenopsis

Orchidaceae (cont'd)

Doritis
Epicattleya
Epidendrum
Grammatophyllum
Habenaria
Laelia
Laeliocattleya
Miltassia
Miltonia
Miltonidium
Odontoglossum
Oncidium
Paphiopedilum
Phaius
Phalaenopsis
Renanthera
Rhyncostylis
Sanderarar
Schombocattleya
Sophrolaeliocattleya
Spathoglottis
Vanda
Vandachnis
Vandopsis
Vanilla

Oxalidaceae

Oxalis

Palmae

Chamaedorea
Chrysalidocarpus
Cocos
Phoenix
Pritchardia
Ptychosperma
Rhaps
Roystonea

Serenoa

Thrinax
Veitchia

Pandanaceae

Freycinetia
Pandanus

Papaveraceae

Eschscholzia

Passifloraceae

Passiflora

Peperomiaceae

Peperomia

Philadelphaceae

Philadelphus

Pinaceae

Pinus
Pseudotsuga

Pittosporaceae

Pittosporum

Plantaginaceae

Limonium

Podocarpaceae
Podocarpus

Polemoniaceae
Phlox

Polygonaceae
Antigonon
Coccoloba
Fagopyrum
Polygonum
Rheum
Rumex

Polyodiaceae
Microsorium
Nephrolepis
Phlebodium
Platynerium
Polypodium

Portulacaceae
Portulaca
Portulacaria

Primulaceae
Anagallis

Proteaceae
Banksia
Grevillea
Leucodendron
Leucospermum
Macadamia
Protea

Pteridaceae
Acrostichum
Pteris

Punicaceae
Punica

Ranunculaceae
Aquilegia
Delphinium
Paeonia

Rhamnaceae
Alphitonia
Zizyphus

Rhizophoraceae
Rhizophora

Rosaceae
Eriobotrya
Fragaria
Malus
Osteomeles
Prunus
Pyrus
Raphiolepis
Rosa
Rubus

Rubiaceae
Borreria
Coffea
Coprosoma
Gardenia
Gouldia
Ixora
Kadua
Morinda
Paederia
Pentas
Psychotria
Richardia

Rutaceae
Casimiroa
Citrus
Flindersia
Murraya
Pelea
Platydesma
Triphasia
Zanthoxylon

Salicaceae
Papulus
Salix

Sapindaceae
Dodonaea
Filicium
Litchi

Saxifragaceae
Broussaisia
Hydrangea
Philadelphus

Sapotaceae
Chrysophyllum
Pouteria
Sideroxylon

Scrophulariaceae

Angelonia
Antirrhinum
Bacops
Digitalis
Hebe
Torenia

Smilacaceae

Smilax

Solanaceae

Capsicum
Cyphomandra
Datura
Lycopersicon
Nicandra
Nicotiana
Petunia
Physalis
Solanum

Sterculiaceae

Theobroma

Taxodiaceae

Sequoia
Sequoiadendron

Tetragoniaceae

Tetragonia

Thunbergiaceae

Thunbergia

Thymeleaceae

Wikstroemia

Tiliaceae

Eleocarpus

Tropaeolaceae

Tropaeolum

Umbelliferae

Anethum
Apium
Centella
Coriandrum
Daucus
Hydrocotyle
Petroselinum

Urticaceae

Cercopia
Pilea
Pipturus
Soleirolia

Verbenaceae

Clerodendrum
Lantana
Lippia
Phyla
Stachytarpheta
Tectona
Verbena

Violaceae

Viola

Viscaceae

Vitaceae

Vitis

Zingiberaceae

Alpinia
Hedychium
Zingiber

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Note: Underlined names of fungus and lichen genera are regarded as synonyms of early names. All specific epithets are underlined. Names of pathogens are all main heading in the text unless the page reference is underline.

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* Key to Abbreviations: A=Ascomycetes, Ac=Acrasiomycetes, Al= Algae, B=Bacteria, Bs=Basidiomycetes, C=Coelomycetes, D=Dueteromycetes, G=Gasteromycetes, H=Hyphomycetes, L=Lichenes, M=Myxomycetes, Ms=Mycelia sterilia, P=Phycomycetes, and S=Spermatophytes

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